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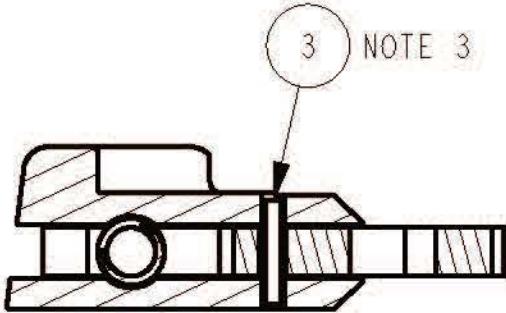
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REVISIONS

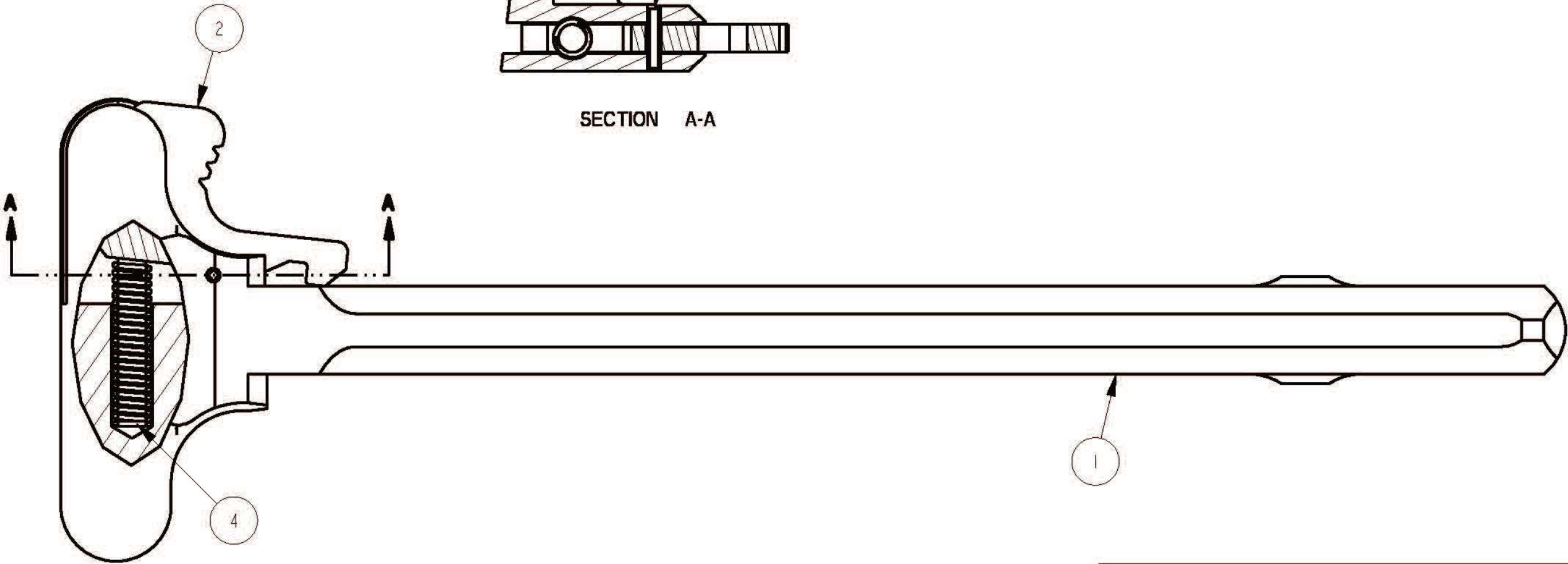
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N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR
-	F	NOR L2S3028 / 2002-05-24	2002-07-30	JJW
A	G	NOR L10S3087 / 2010-07-29	2010-08-03	BMG

NOTES

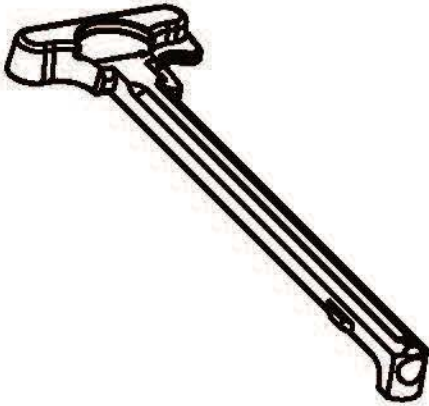
- MIL-W-13855 APPLIES.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.
- INSERT PIN SO THAT ENDS ARE FLUSH OR BELOW SURFACE ON BOTH SIDES AS SHOWN.



SECTION A-A



- 101 NO PARTS MISSING OR IMPROPERLY ASSEMBLED
- 102 FREE MOVEMENT OF LATCH AND SPRING
- 103 SECURENESS OF SPRING PIN
- 201 WORKMANSHIP



ISOMETRIC VIEW  
SCALE 0.500

ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS
4	1	19204	8448520	SPRING, CHARGING HANDLE LATCH	
3	1	19204	8448521-2	PIN, SPRING	
2	1	19204	8448519	LATCH, CHARGING HANDLE	
1	1	19204	8448518	HANDLE, CHARGING	

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

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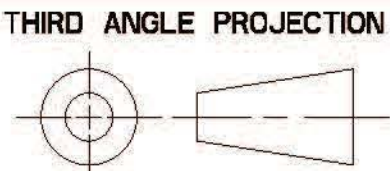
PART NO. 8448517

PMIC	9327227	M231
	12972700	M4A1
	9390000	M4
MECHANICAL PROPERTIES	12973001	M16A4
	12012000	M16A3
YP	9349000	M16A2
TS	8448500	M16A1
EL2	8448600	M16
RA		
BH		
RH		
	NEXT ASSY	USED ON
	APPLICATION	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± °  
2 PLACE DECIMALS ±  
3 PLACE DECIMALS ±



MATL ENGR

MODELED BY

D. COLLUM

CONTRACT NUMBER

CONTRACTOR

DRAWN BY  
D. COLLUM

DATE(YEAR-MO-DA)  
1970-04-27

CHECKER  
J. WINDHAM

ENGINEER  
J. WINDHAM

ENGINEER  
L. KO

QUALITY ENGINEER  
E. SESE

DRAWING APPROVAL

L. BRUNTON

2002-05-24

DESIGN APPROVAL

R. ELBE

2002-05-24

DESIGN ACTIVITY

US ARMY  
ROCK ISLAND ARSENAL  
ROCK ISLAND, ILLINOIS

CHARGING HANDLE ASSEMBLY

SIZE

C

CAGE CODE

19204

DWG NO.

8448517

SCALE

2.000

UNIT WT.

0.0711

SHEET

1 OF 1

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.







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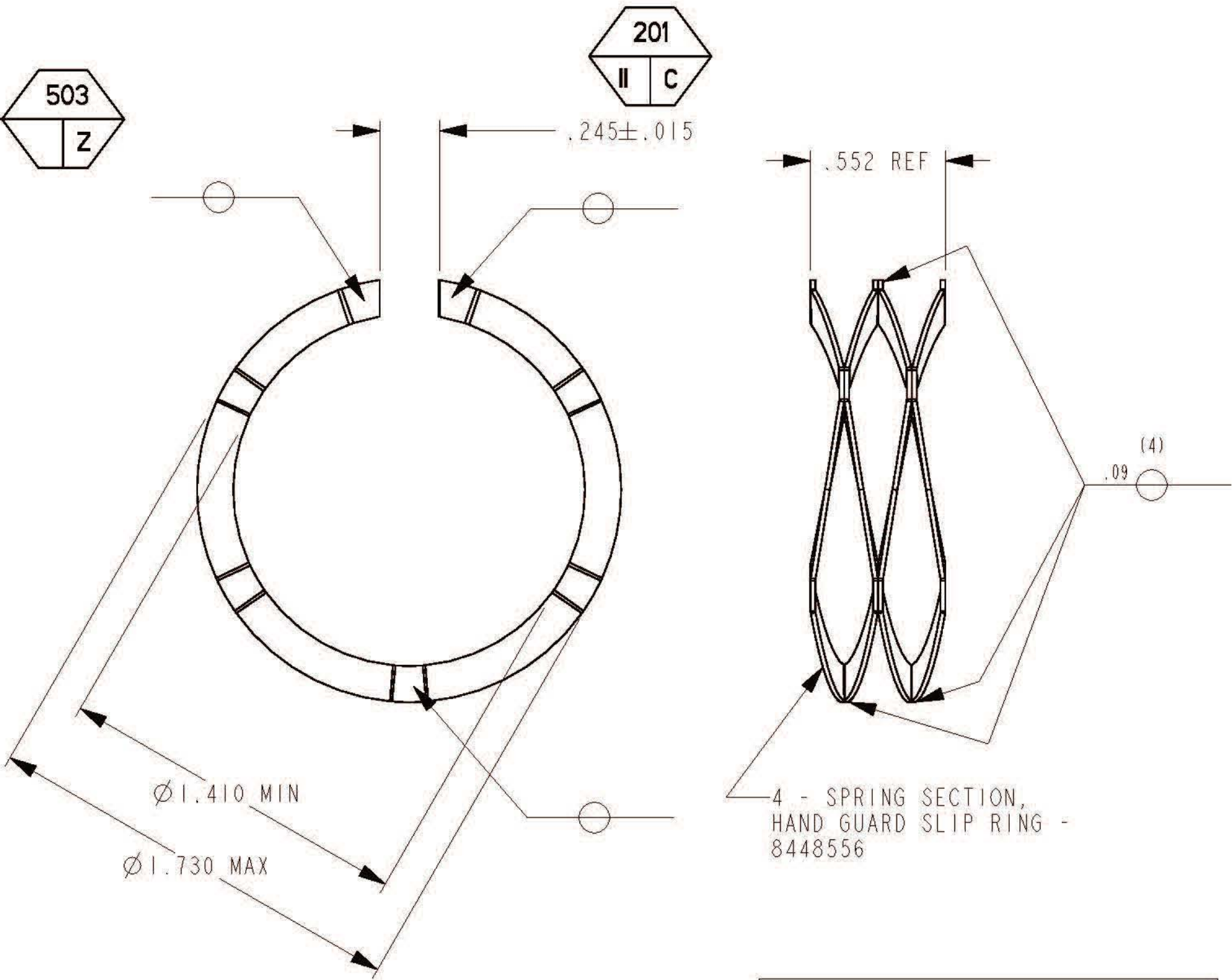
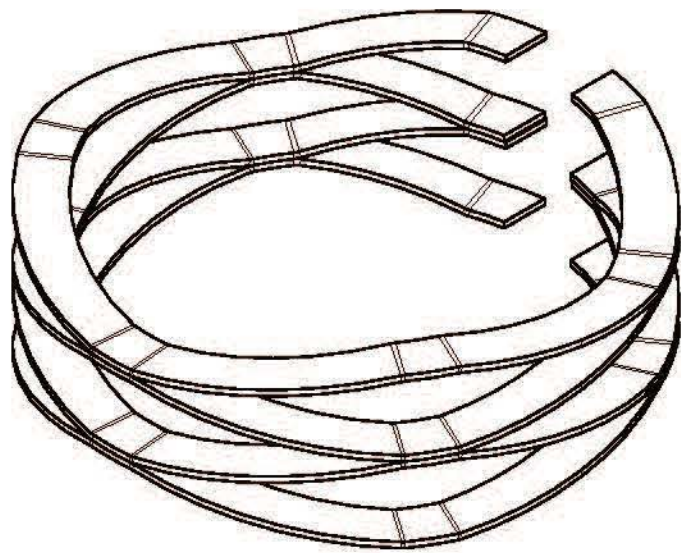
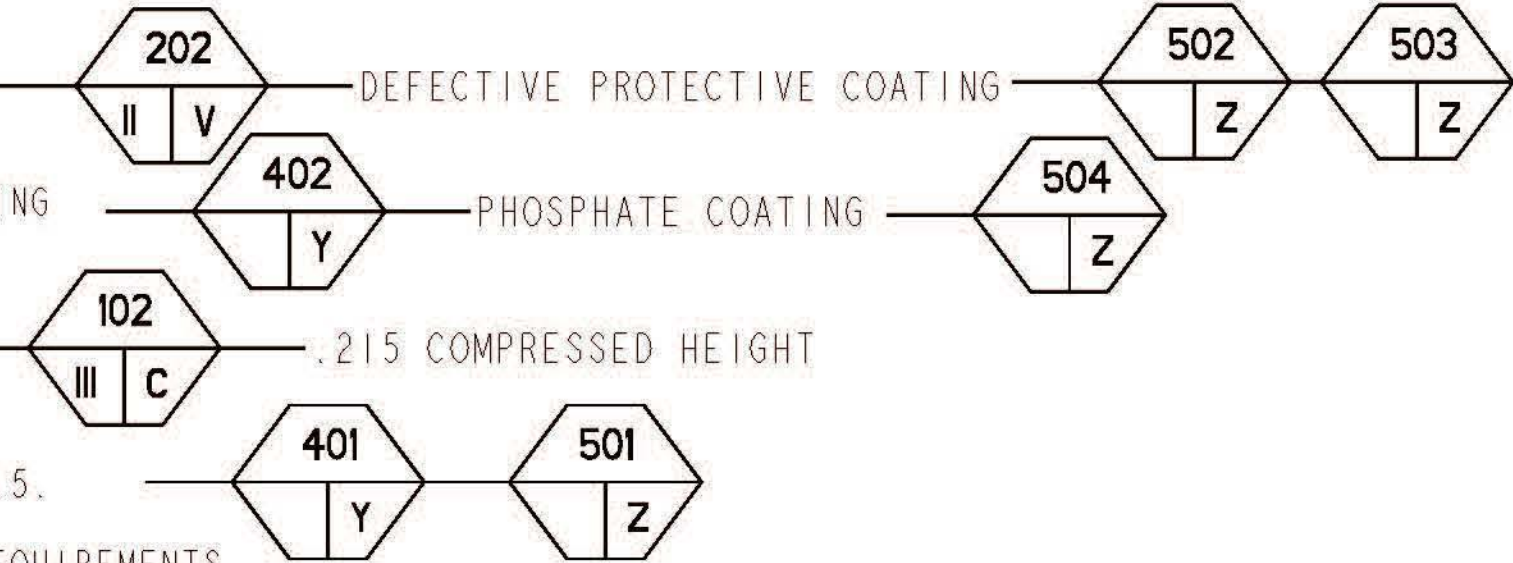
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	E	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	
-	F	NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

- MIL-W-13855 APPLIES.
- FINISH 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171, EXCEPT: CLEAN IN ACCORDANCE WITH METHOD 11, SPEC TT-C-490. ABRASIVE BLASTING SHALL NOT BE USED.
- SPOT WELDS MUST HOLD AFTER COMPRESSION TO .215 HEIGHT ON SPRING TESTER.
- ROCKWELL HARDNESS 15N 82.5-84.5.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

- 203 WORKMANSHIP
- 506 .215 COMPRESSED HEIGHT
- 403 SUPPLEMENTARY OIL



STM-506: REFERENCED CHARACTERISTIC 102. COMPRESS SPRING TO A HEIGHT OF .215 USING GAGE NOS. 8443775 AND B8443556. SPRING SHALL SHOW NO EVIDENCE OF SPOT WELD FAILURE.

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448555

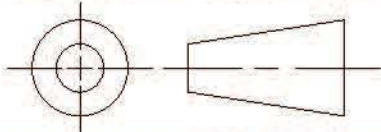
PMIC		
		M16A4
		M16A3
		M4A1
	8448711	M4
		M231
		M16, M16A2
	B8448711	M16A1
	NEXT ASSY	USED ON
	APPLICATION	

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DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± °  
2 PLACE DECIMALS ±  
3 PLACE DECIMALS ±

THIRD ANGLE PROJECTION



MATL ENGR

MODELED BY

S. GALL - ESERV

CONTRACT NUMBER

CONTRACTOR

DRAWN BY

T. KULIG - ESERV

CHECKER

G. STRAHL

ENGINEER

L. KO

DRAWING APPROVAL

L. BRUNTON

DESIGN APPROVAL

R. ELBE

DATE(YEAR-MO-DA)

1970-04-27

ENGINEER

J. WINDHAM

QUALITY ENGINEER

L. CICHUCKI

2001-11-16

2001-11-16

DESIGN ACTIVITY

US ARMY  
ROCK ISLAND ARSENAL  
ROCK ISLAND, ILLINOIS

SPRING WELD ASSEMBLY  
HAND GUARD SLIP RING

SIZE

C

CAGE CODE

19204

DWG NO.

8448555

SCALE

2/1

UNIT WT.

0.017

SHEET

1 OF 1

DISTRIBUTION STATEMENT F: FURTHER  
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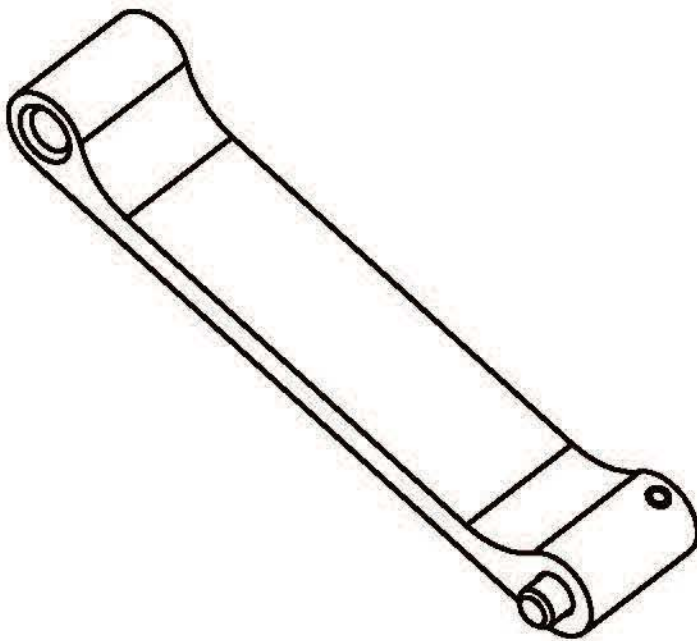
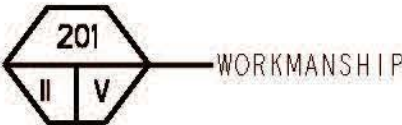
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REVISIONS

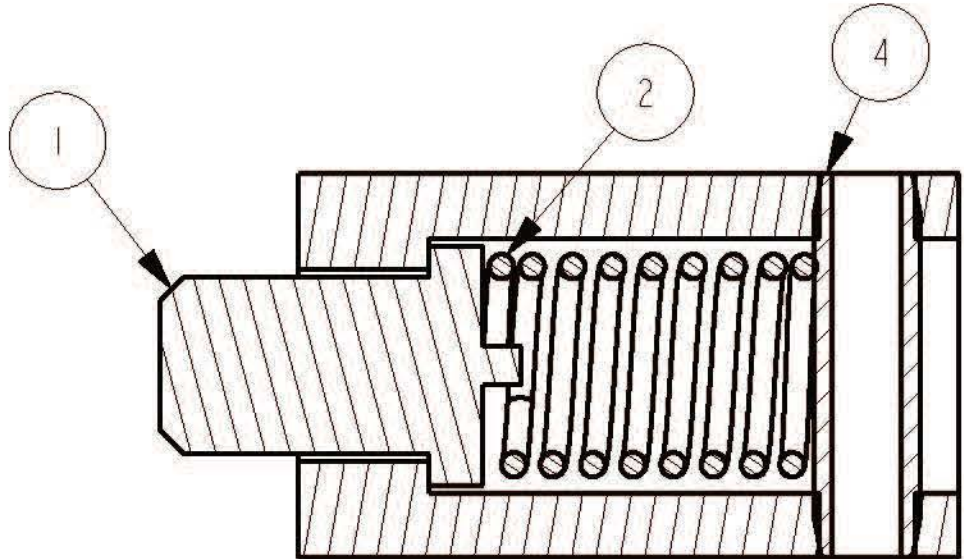
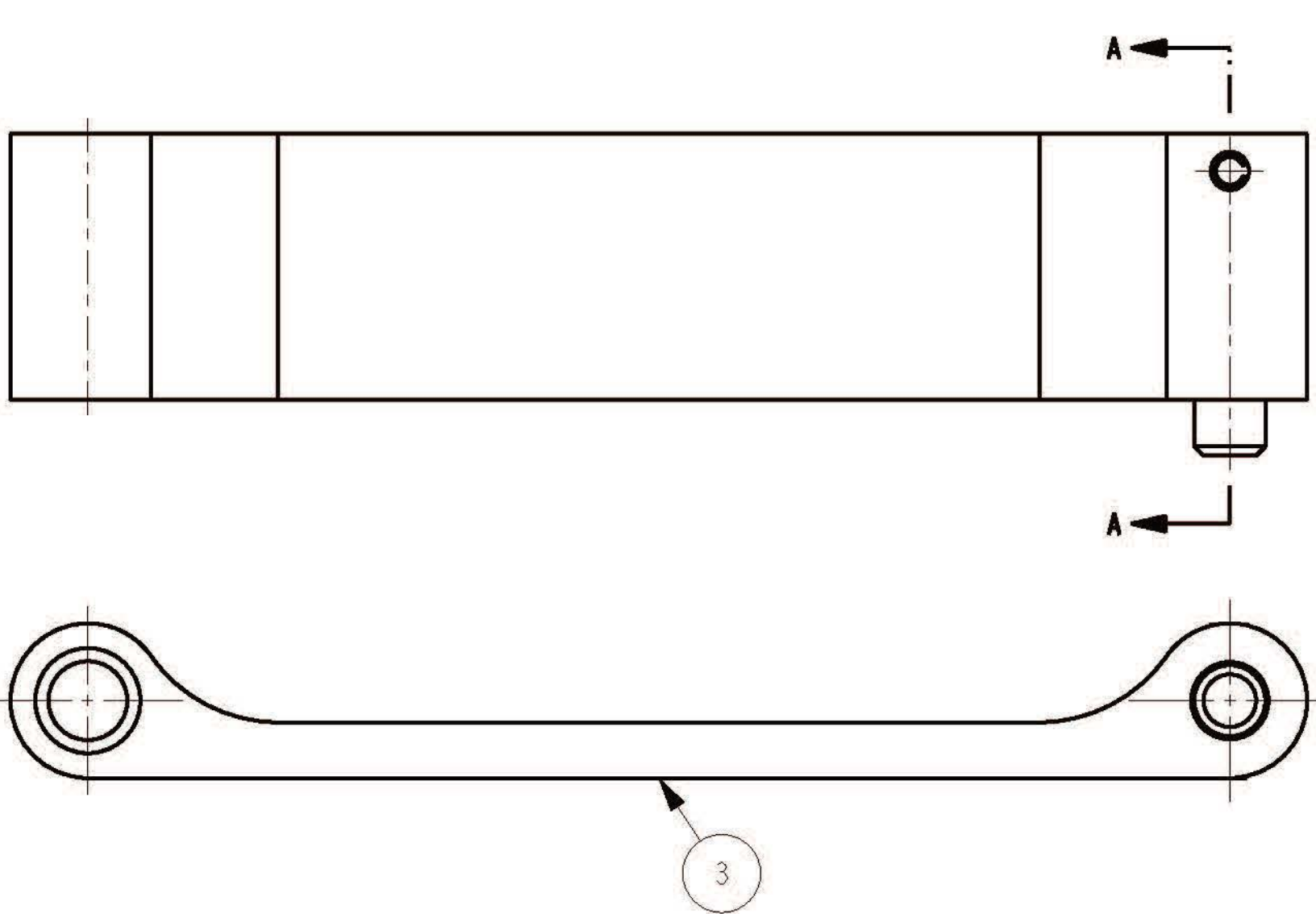
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	B	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	C	NOR W2S0020 / 1982-06-09	1983-06-09	LAH
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	RR
-	E	NOR L2S3033 / 2002-07-22	2002-08-05	JJW
A	F	NOR L0TS3072 / 2007-08-06	2007-08-20	BMG

NOTES

1. MIL-W-13855 APPLIES.
2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 2.000



SECTION A-A  
SCALE 8.000

ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS
4	1	96906	MS16562-96	PIN, SPRING-TUBULAR, SLOTTED	PER NASMI6562
3	1	19204	8448588	GUARD, TRIGGER	
2	1	19204	8448590	SPRING, TRIGGER GUARD	
1	1	19204	8448589	PLUNGER, TRIGGER GUARD	

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

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PART NO. 8448587

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PMIC			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±  THIRD ANGLE PROJECTION 	CONTRACT NUMBER		DESIGN ACTIVITY			
	MECHANICAL PROPERTIES			M4A1	CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS		
		YP		9390011	M16A4	DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1970-04-27	TRIGGER GUARD ASSEMBLY	
		TS		9327230	M16A3	CHECKER K. JOHNSON-ESERV	ENGINEER J. WINDHAM		
		EL2		8448605	M16A2	ENGINEER L. KO	QUALITY ENGINEER E. SESE		
RA	8448579	M16A1		DRAWING APPROVAL L. BRUNTON 2002-07-22		SIZE C	CAGE CODE 19204	DWG NO. 8448587	
BH				DESIGN APPROVAL R. ELBE 2002-07-22		SCALE 4.000	UNIT WT. 0.010	SHEET 1 OF 1	
RH				APPLICATION NEXT ASSY USED ON					



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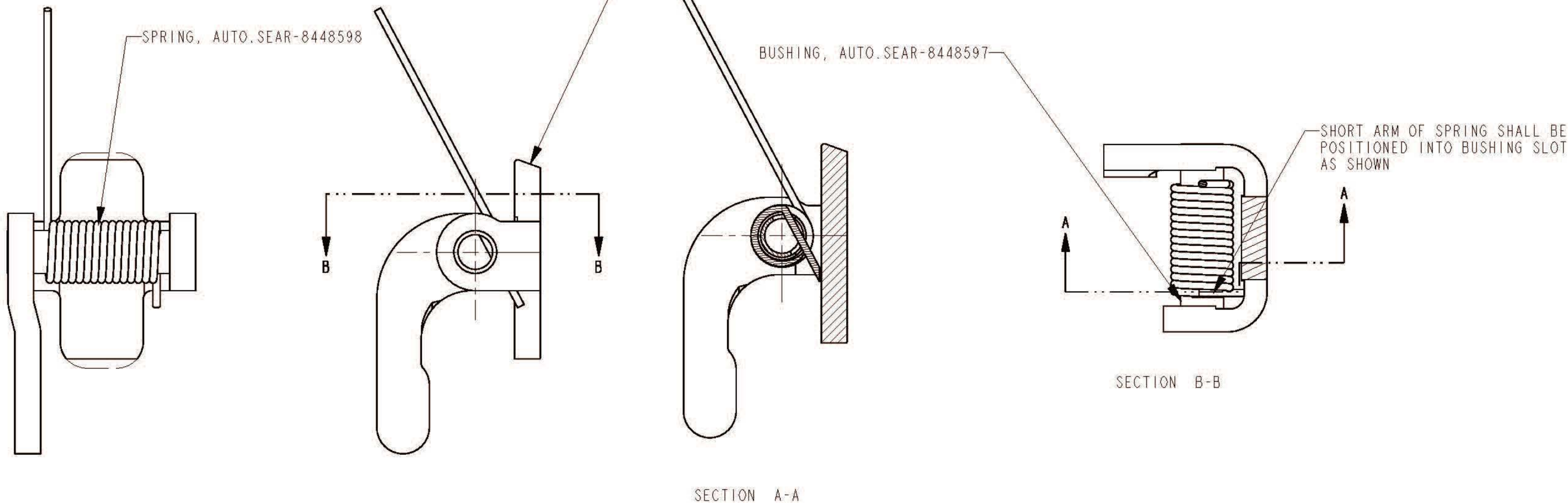
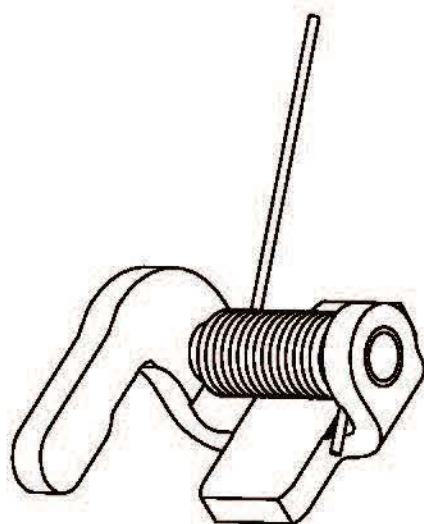
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	A	(S) SEE ERR HQR 20778	1972-10-06	RE
N/A	B	NOR W2S0026 / 1982-05-21	1983-02-03	
N/A	C	NOR GIS2018 / 1991-07-08	1991-10-11	RR
N/A	D	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	AJL
-	E	NOR L2S3033 / 2002-07-22	2002-08-05	JJW

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855
2. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING 12993884 APPLY.



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PART NO. 8448595

101

III V

ASSEMBLY INCORRECT

102

III V

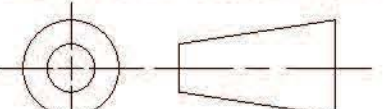
PART MISSING

201

II V

WORKMANSHIP

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				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. SIERENS-ESERV		DATE(YEAR-MO-DA) 1970-04-27				
YP			M4	THIRD ANGLE PROJECTION		CHECKER K. JOHNSON-ESERV		ENGINEER J. WINDHAM				
TS			M16A4			ENGINEER L. KO		QUALITY ENGINEER E. SESE				
EL2		9390011	M16A3			DRAWING APPROVAL L. BRUNTON		SIZE C		CAGE CODE 19204	DWG NO. 8448595	
RA		F8448578	M16A2			2002-07-22						
BH		F8448604	M16A1			DESIGN APPROVAL						
RH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY R. SIERENS-ESERV		R. ELBE		2002-07-22		
		APPLICATION						SCALE		2/1	UNIT WT. 0.017	SHEET 1 OF 1



B

A

B

A

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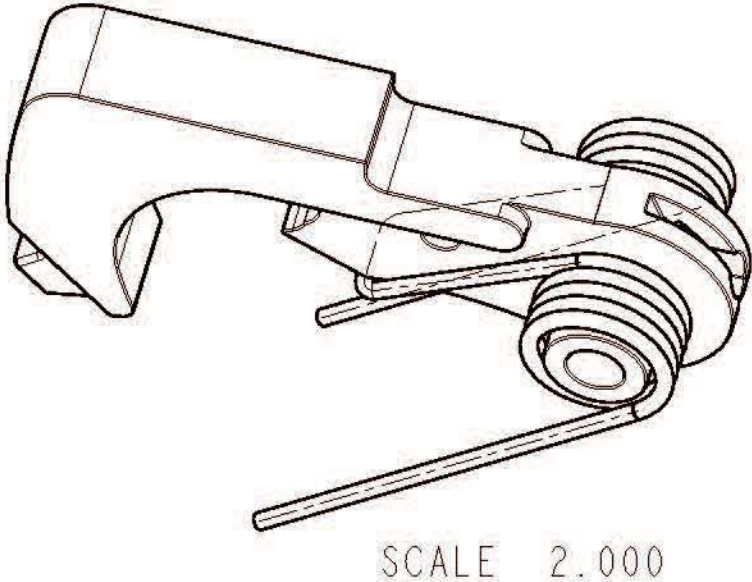
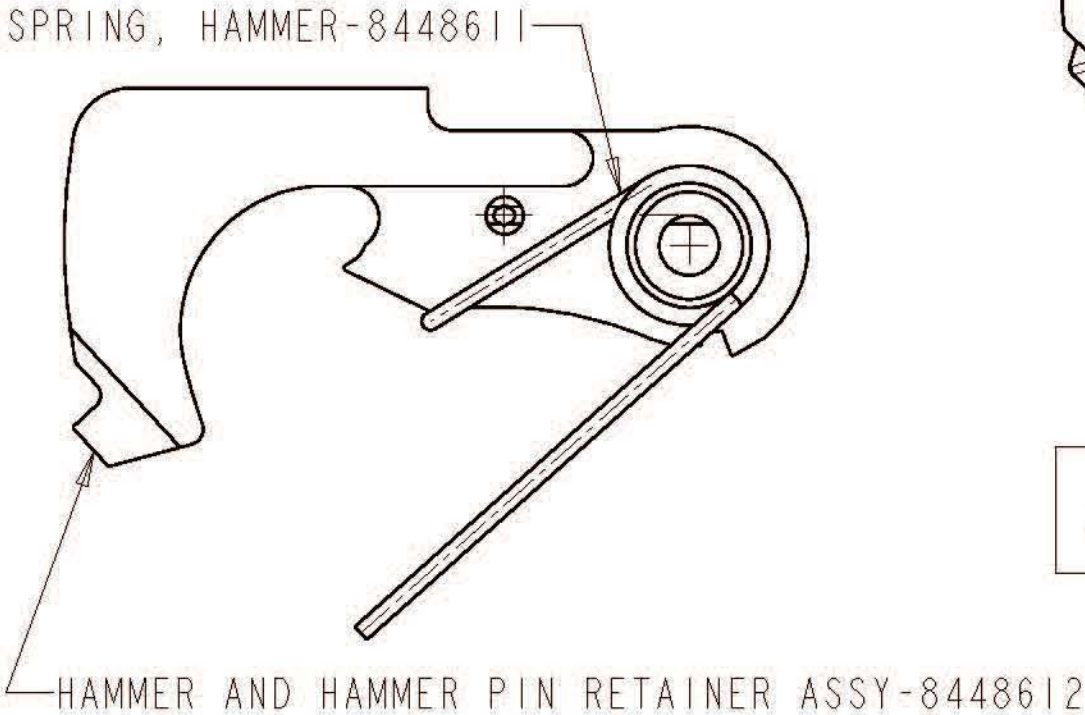
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NOTES

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2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



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ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

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PART NO. 8448610

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY J. MACON-ESERV		DATE (YEAR-MO-DA) 1970-04-27		HAMMER ASSY	
				THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM			
YP						ENGINEER L. KO		QUALITY ENGINEER E. SESE			
TS						DRAWING APPROVAL L. BRUNTON		2002-08-28			
EL2		F8448604		MI6A3		DESIGN APPROVAL R. ELBE		2002-08-28		SCALE 2/1	
RA		F8448578		MI6A1						CAGE CODE 19204	
BH		NEXT ASSY		USED ON						DWG NO. 8448610	
RH						MATL ENGR		MODELED BY J. MACON-ESERV		UNIT WT 0.080	
		APPLICATION								SHEET 1 OF 1	



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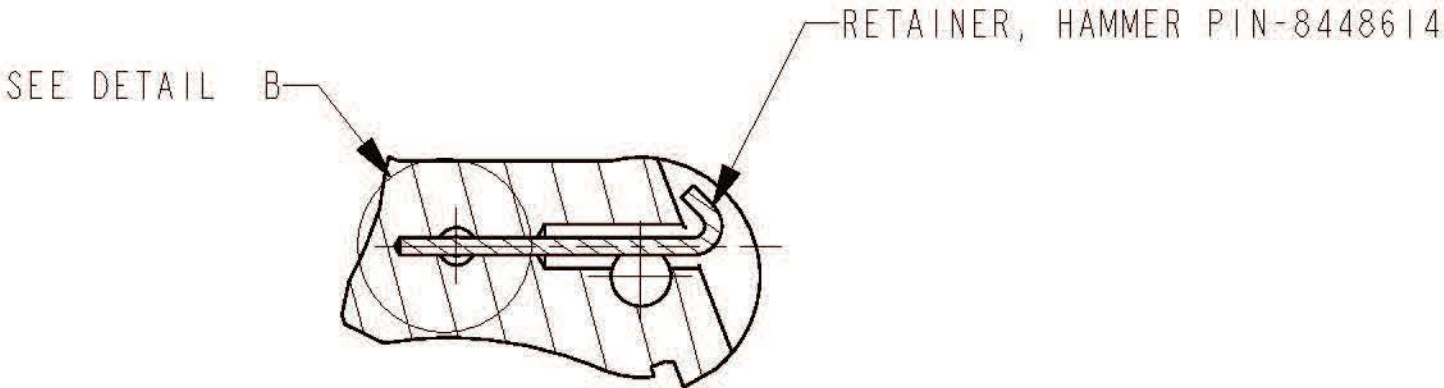
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	B	(2) SEE ERR HQR 20778	1972-10-06	RE
N/A	C	NOR W2S0026 / 1982-05-21	1983-02-03	
-	D	NOR L2S3044 / 2002-08-28	2002-10-22	JJW

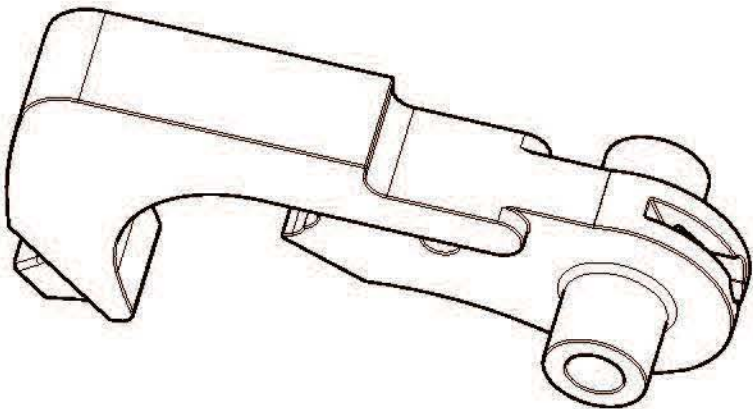
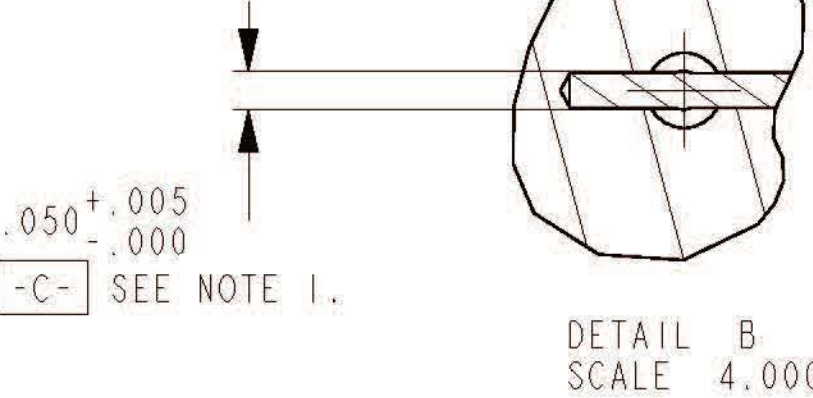
NOTES

1. COIN BOTH SIDES OF RETAINER , 8448614 TO **-C-**. AFTER COINING, RETAINER SHALL HAVE .010 MIN LONGITUDINAL MOVEMENT.
2. MIL-W-13855 APPLIES.
3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

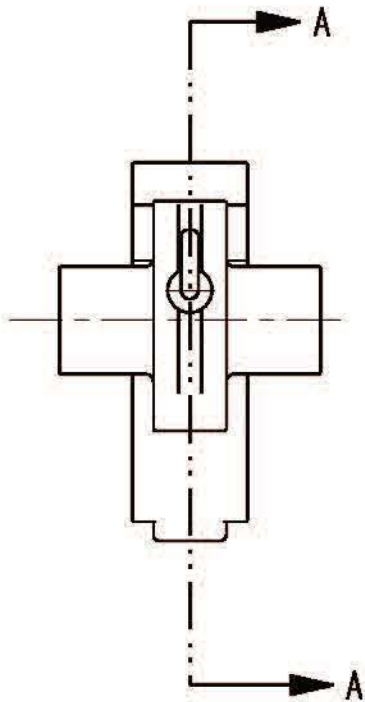
**101**  
**III V** PARTS MISSING OR IMPROPERLY ASSEMBLED



SECTION A-A



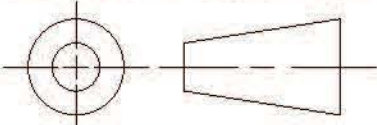
SCALE 2.000



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PART NO. 8448612

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY; ARDEC, AMSTA-AR-CCL-F,

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY J. MACON-ESERV		DATE(YEAR-MO-DA) 1970-04-27		HAMMER AND HAMMER PIN RETAINER ASSEMBLY		
						CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM				
YP						ENGINEER L.KO		QUALITY ENGINEER E. SESE				
TS						DRAWING APPROVAL L. BRUNTON 2002-08-28						
EL2				THIRD ANGLE PROJECTION		DESIGN APPROVAL R. ELBE 2002-08-28				SIZE C		
RA										CAGE CODE 19204		
BH										DWG NO. 8448612		
RH										SCALE 2/1		
				APPLICATION		MATL ENGR		MODELED BY J. MACON-ESERV		UNIT WT. 0.073		
										SHEET 1 OF 1		



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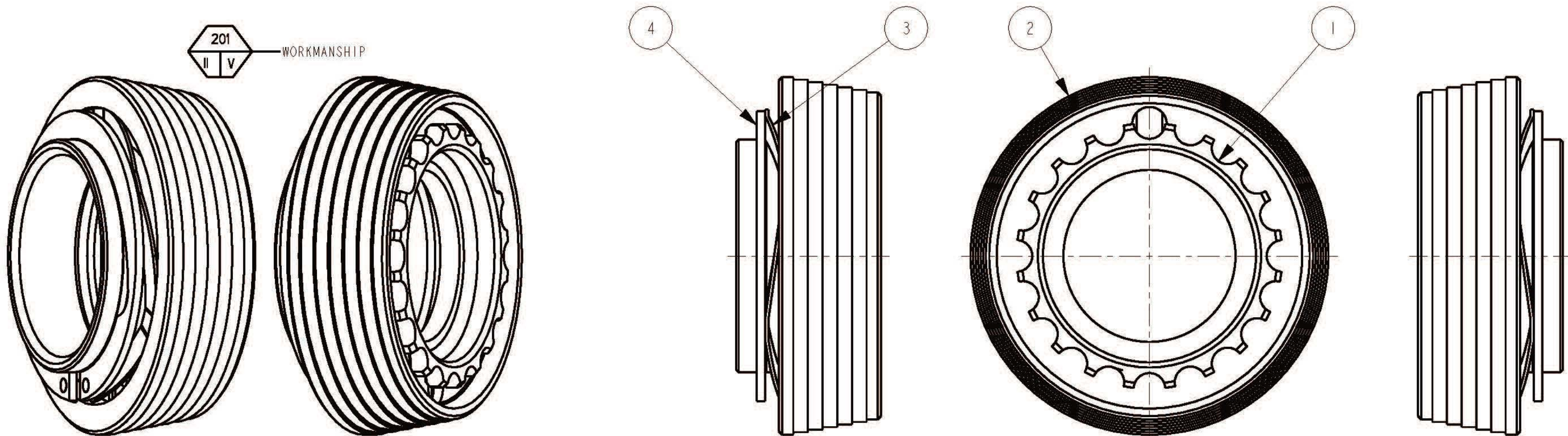
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR G0S3010 / 1990-02-28	1990-09-06	
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	F	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	G	NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	H	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
B	J	NOR L09S3027 / 2009-04-17	2009-05-04	BMG

NOTES

- MIL-STD-100 APPLIES.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW 1

ISOMETRIC VIEW 2

ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS
4	1	05047	AER10X137000GF6LFI	INVERTED EXTERNAL RETAINING RING	PER ASME B18.27 AND ASME B18.24
3	1	19204	8448555	SPRING WELD ASSEMBLY, HANDGUARD SLIP RING	
2	1	19204	8448712	SLIP RING, HAND GUARD	
1	1	19204	8448553	NUT, BARREL	

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

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PART NO. 8448711

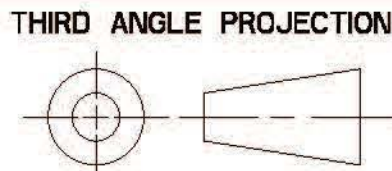
DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC; AMSTA-AR-CCL-F; ROCK ISLAND, IL; 1993-09-14.

PMIC	9327230	M231
	12997148	M4A1
	12972680	M4
MECHANICAL PROPERTIES	9390001	M16A4
YP	12973010	M16A3
TS	9349050	M16A2
EL2	8448522	M16A1
RA	8448601	M16
BH		
RH		
	NEXT ASSY	USED ON
	APPLICATION	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± °  
2 PLACE DECIMALS ±  
3 PLACE DECIMALS ±



MATL ENGR

MODELED BY

S. GALL - ESERV

CONTRACT NUMBER

CONTRACTOR

DRAWN BY

S. GALL - ESERV

CHECKER

G. STRAHL

ENGINEER

L. KO

DRAWING APPROVAL

L. BRUNTON

DESIGN APPROVAL

R. ELBE

DATE(YEAR-MO-DA)

1970-04-27

ENGINEER

J. WINDHAM

QUALITY ENGINEER

L. CICHUCKI

2001-11-16

2001-11-16

DESIGN ACTIVITY

US ARMY  
ROCK ISLAND ARSENAL  
ROCK ISLAND, ILLINOIS

BARREL NUT ASSEMBLY

SIZE

C

CAGE CODE

19204

DWG NO.

8448711

SCALE

2.000

UNIT WT.

0.169

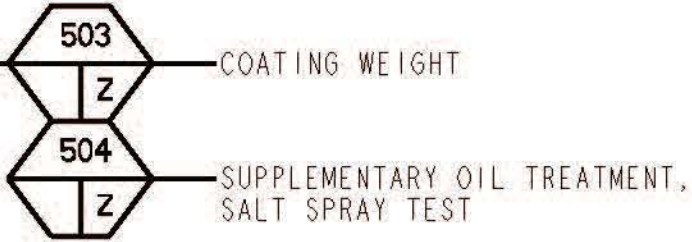
SHEET

1 OF 1



NOTES

1. MIL-W-13855 APPLIES.
2. AFTER ASSEMBLY BUT PRIOR TO APPLICATION OF PROTECTIVE FINISH, GRIT BLAST TO PRODUCE A NON-REFLECTIVE MATTE SURFACE.
3. PROTECTIVE FINISH: 5.3.1.2 OF MIL-STD-171.
4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 129993884 APPLY.



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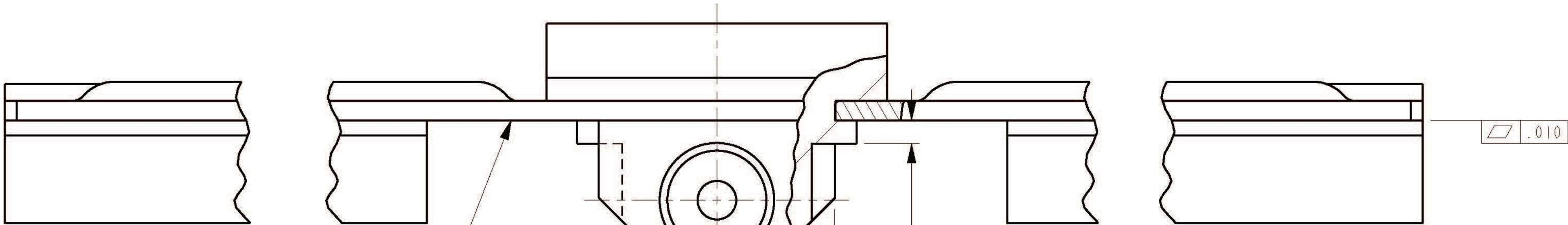
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REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE REPLACES WITH CHANGE DRAWING 8448526 SEE ERR HGR 20748	1972-09-15	LB
N/A	A	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	B	NOR W3S3123 / 1983-07-07	1983-08-16	
N/A	C	NOR GIS3071 / 1991-06-26	1991-08-21	
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	
-	E	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	F	NOR L04S3055 / 2004-10-27	2004-12-15	RJC
B	G	NOR L09S3182 / 2010-01-11	2010-01-22	BMG



COVER, EJECTION PORT-8448785

HOUSING, COVER LATCH-8448784  
(NO RELATIVE MOVEMENT BETWEEN HOUSING  
AND COVER PERMISSIBLE AFTER SWAGING)

.030 MIN  
2 PLACES

.030 MAX  
2 PLACES

SWAGE  
2 PLACES

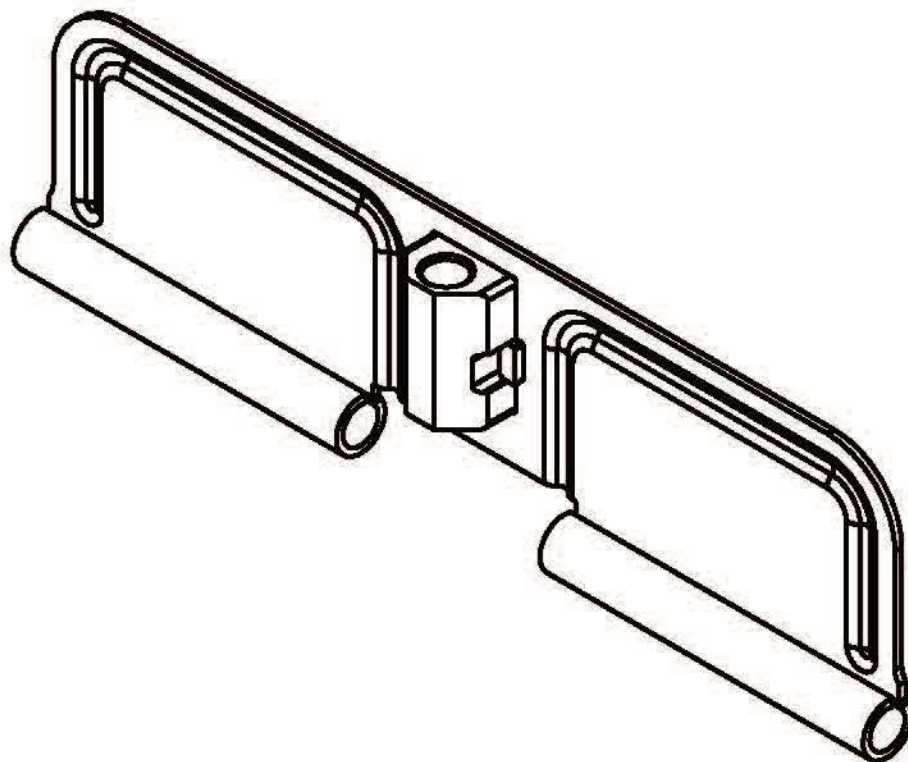
.028 MIN  
2 PLACES

.193±.010  
2 PLACES

.12±.05  
-.00  
2 PLACES

R.005 MIN  
4 PLACES

R.020 MIN  
4 PLACES



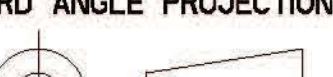
ISO VIEW  
SCALE 2.000

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC;  
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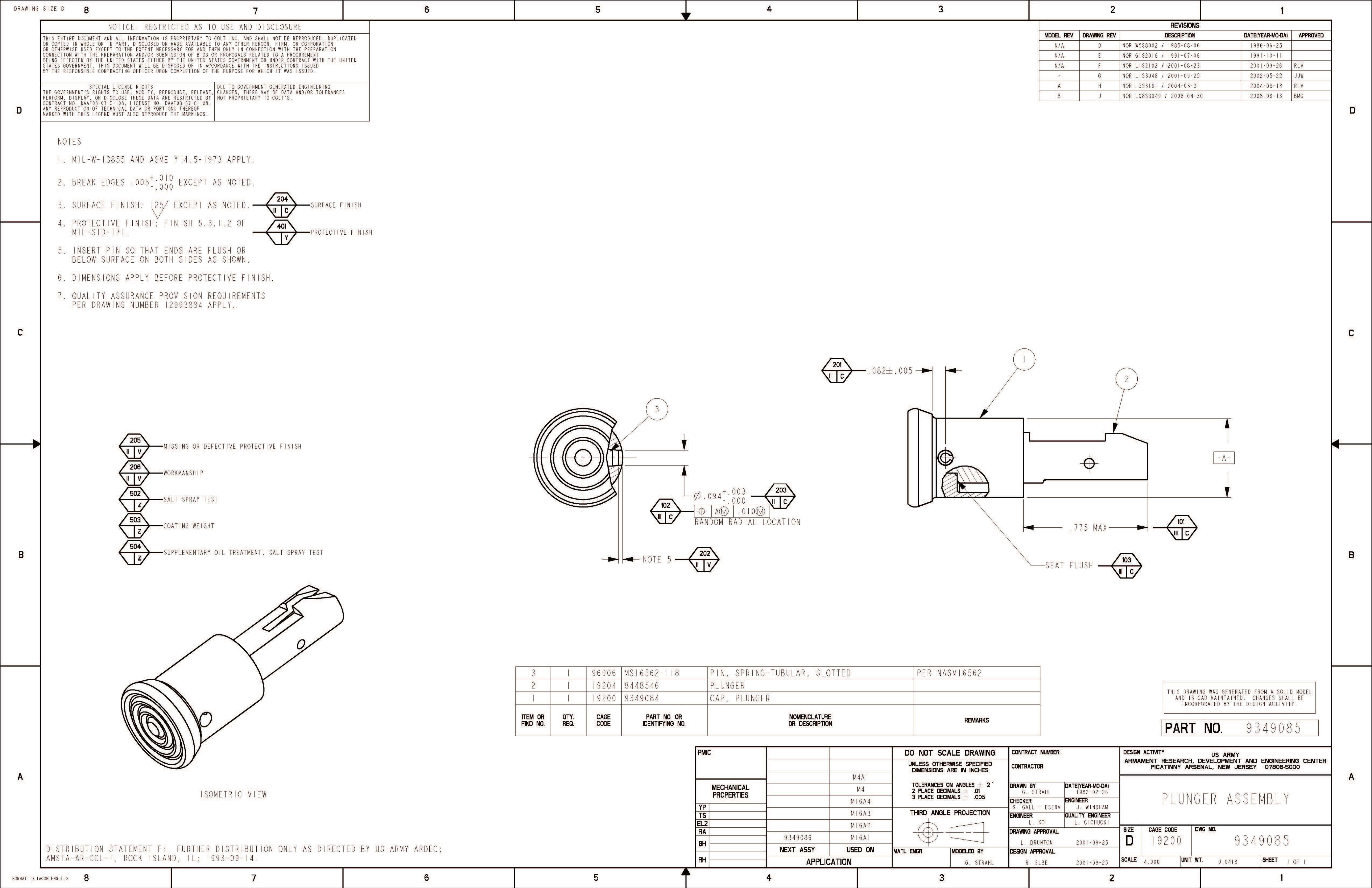
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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448783

PMIC		M231		DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		CONTRACT NUMBER		DESIGN ACTIVITY <div>US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS</div> <div>EJECTION PORT COVER AND LATCH HOUSING ASSEMBLY</div>			
		M4A1				CONTRACTOR					
		M4									
MECHANICAL PROPERTIES		M16A4		<div>THIRD ANGLE PROJECTION</div> 		DRAWN BY		DATE(YEAR-MO-DA)			
		M16A3				T. KULIG - ESERV		1972-09-15			
		M16A2				CHECKER		ENGINEER			
		M16A1				G. STRAHL		J. WINDHAM			
YP						ENGINEER		QUALITY ENGINEER			
TS		8448525				L. KO		L. CICHUCKI			
EL2		NEXT ASSY		USED ON		DRAWING APPROVAL		SIZE			
RA						L. BRUNTON		D			
BH						2001-09-25		CAGE CODE			
						DESIGN APPROVAL		19204			
RH		APPLICATION				R. ELBE		DWG NO.			
						2001-09-25		8448783			
								SCALE			
								10.000			
								UNIT WT.			
								0.033			
								SHEET			
								1 OF 1			







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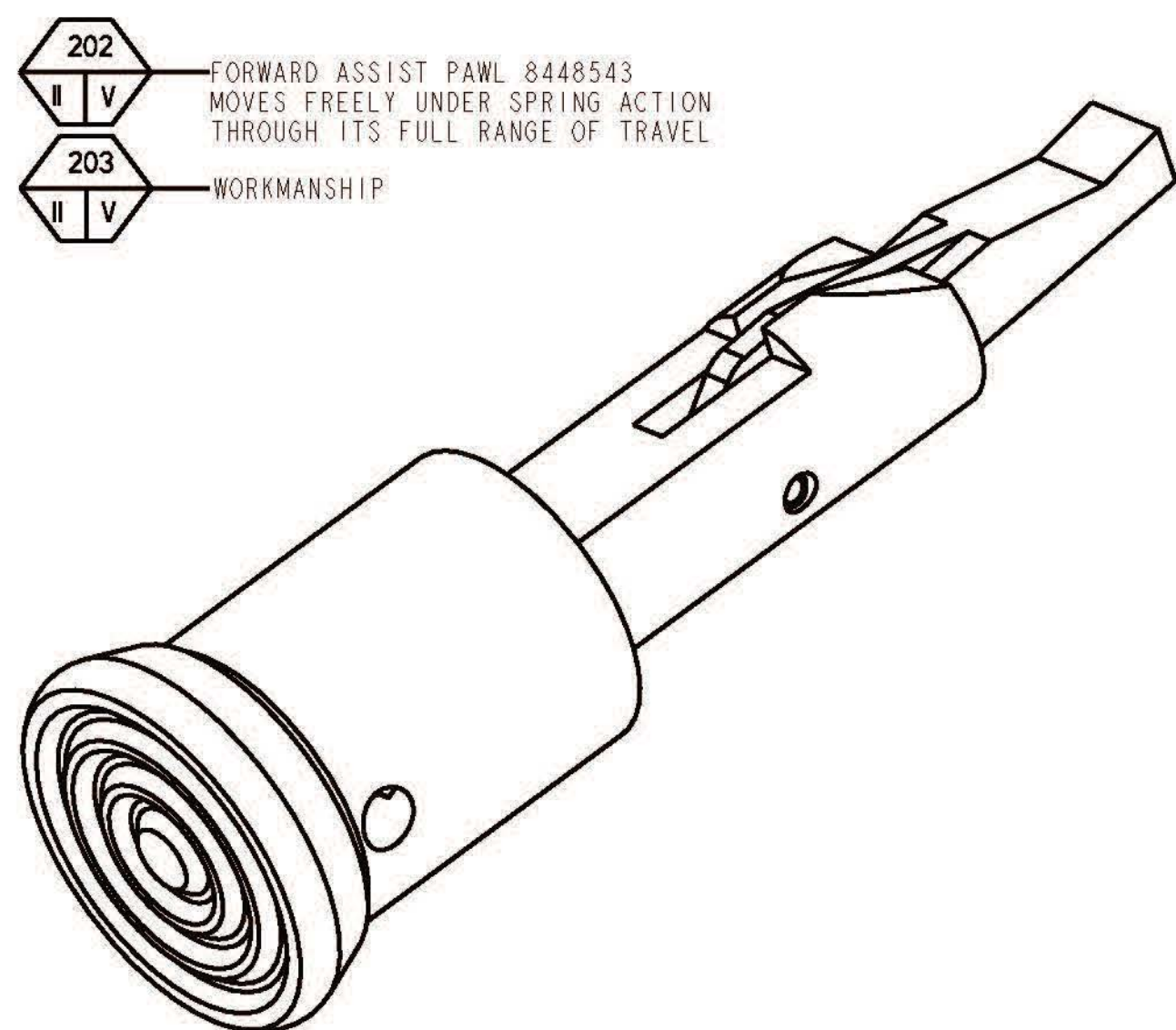
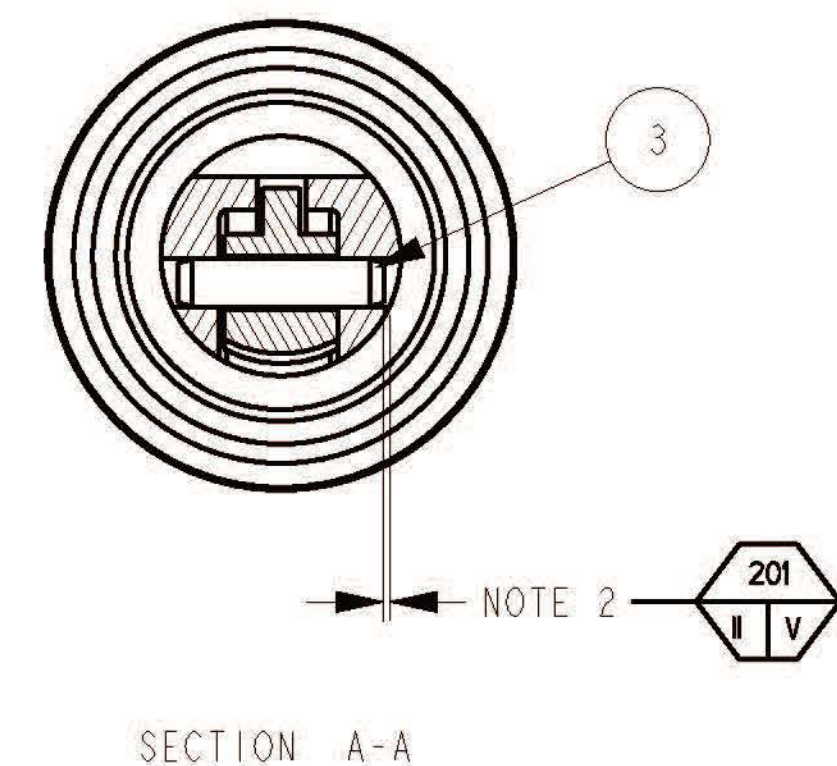
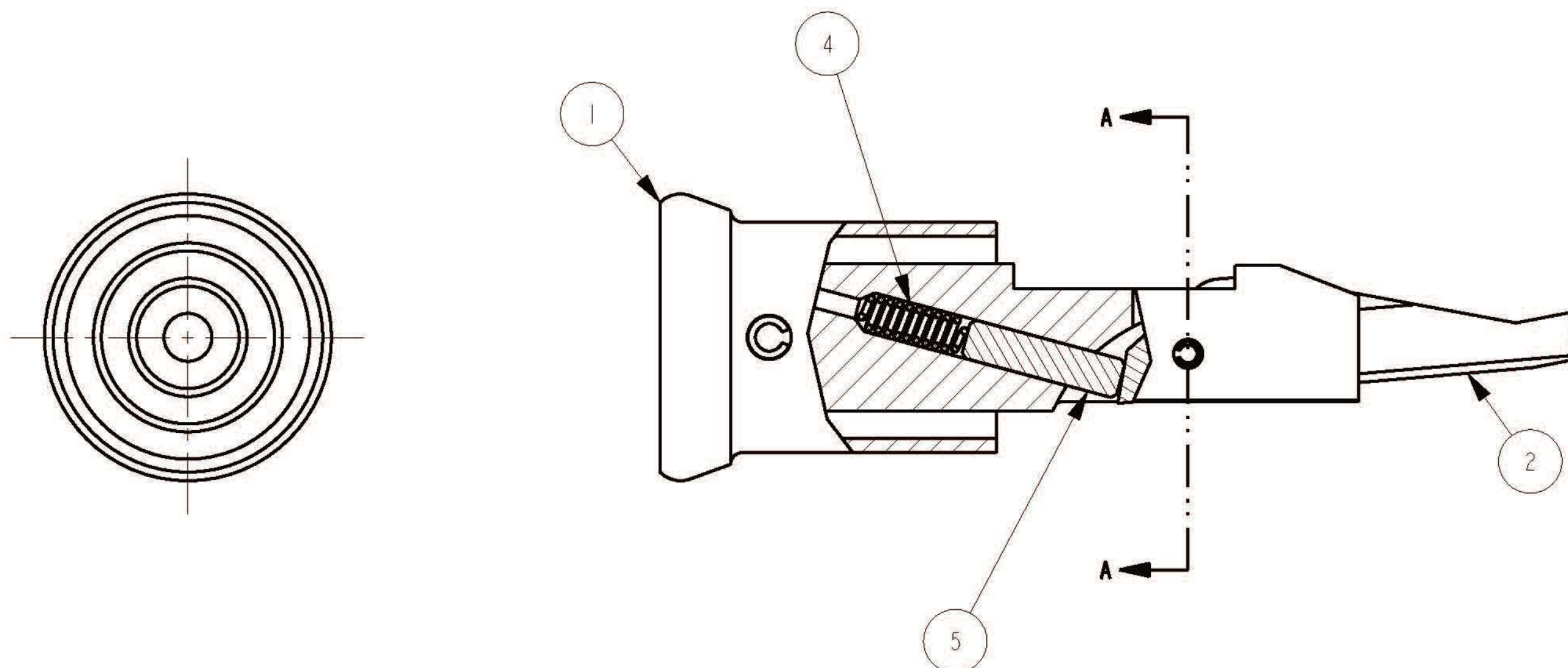
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NOTES:

1. MIL-W-13855 AND ANSI Y14.5-1973 APPLY.
2. INSERT PIN SO THAT ENDS ARE FLUSH OR BELOW SURFACE ON BOTH SIDES AS SHOWN.
3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

## REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR 6753018 / 1987-03-12	1988-01-14	
N/A	E	NOR 6152018 / 1991-07-08	1991-10-11	
-	F	NOR 1153048 / 2001-09-25	2002-05-22	JJW
A	G	NOR 1353161 / 2004-03-31	2004-08-13	RLV
B	H	NOR 10853049 / 2008-04-30	2008-06-13	BMG
C	J	NOR 10953130 / 2009-09-08	2009-09-10	BMG




ISOMETRIC VIEW

5	I	19204	8448544	DETENT, PAWL	
4	I	19204	8448542	SPRING, BOLT	
3	I	19204	8448521-2	PIN, SPRING	
2	I	19204	8448543	PAWL, FORWARD ASSIST	
1	I	19200	9349085	PLUNGER ASSEMBLY	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

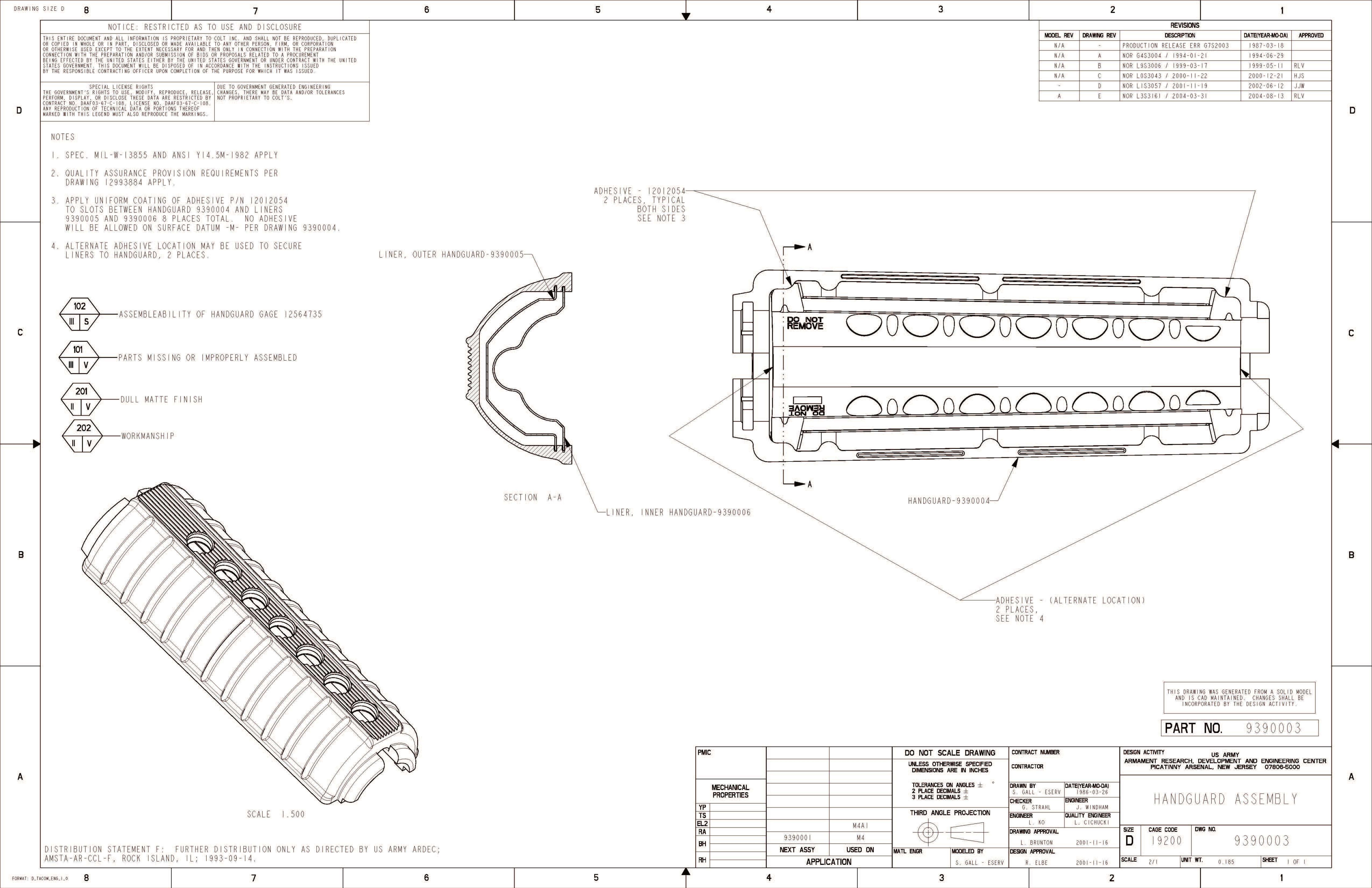
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PART NO.	9349086
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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY						
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000						
MECHANICAL PROPERTIES		12973011	M4	TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY S. GALL - ESERV		DATE(YEAR-MO-DA) 1982-02-26		FORWARD ASSIST ASSEMBLY				
		12972675	M16A4			CHECKER G. STRAHL		ENGINEER J. WINDHAM						
YP				THIRD ANGLE PROJECTION 		ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI						
TS		9390029	M16A3			DRAWING APPROVAL L. BRUNTON		2001-09-25		SIZE D	CAGE CODE 19200	DWG NO. 9349086		
EL2		9349062	M16A2			DESIGN APPROVAL		R. ELBE		2001-09-25		SCALE 4.000	UNIT WT. 0.0478	SHEET 1 OF 1
RA		8448523	M16A1											
BH		NEXT ASSY	USED ON			MATL ENGR		MODELED BY S. GALL - ESERV						
RH		APPLICATION												

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FORMAT: D\_TACON\_ENG\_1.0

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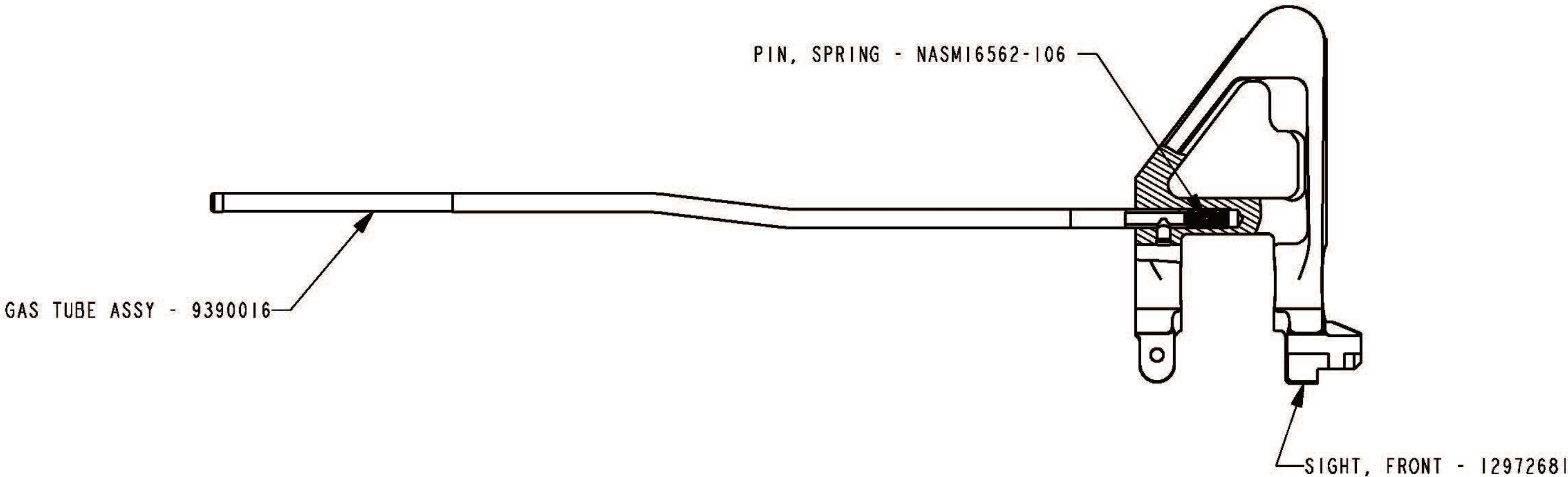
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE/YEAR-MO-DAI	APPROVED
N/A	-	PRODUCTION RELEASE G7S2003	1987-03-18	
N/A	A	NOR G4S3094 / 1994-08-08	1996-07-18	
N/A	B	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	C	NOR LIS3057 / 2001-11-19	2002-06-12	JJW

NOTES

- APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855  
B. ANSI Y14.5M-1982
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



101  
III V PARTS MISSING OR IMPROPERLY ASSEMBLED

201  
II V WORKMANSHIP

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PART NO. 9390008

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY	
		TOLERANCE ON ANGLES ± °		DRAWN BY		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	
		2 PLACE DECIMALS ±		G. STRAHL		PICATINNY ARSENAL, NEW JERSEY 07808-6000	
		3 PLACE DECIMALS ±		CHECKER		SIGHT AND GAS TUBE ASSY	
		THIRD ANGLE PROJECTION		ENGINEER			
				L. KO			
				DRAWING APPROVAL		SIZE	
				L. BRUNTON 2001-11-16		C	
				DESIGN APPROVAL		CAGE CODE	
				R. ELBE 2001-11-16		19200	
						9390008	
						SCALE	
						1/1	
						UNIT WT.	
						0.352	
						SHEET	
						1 OF 1	

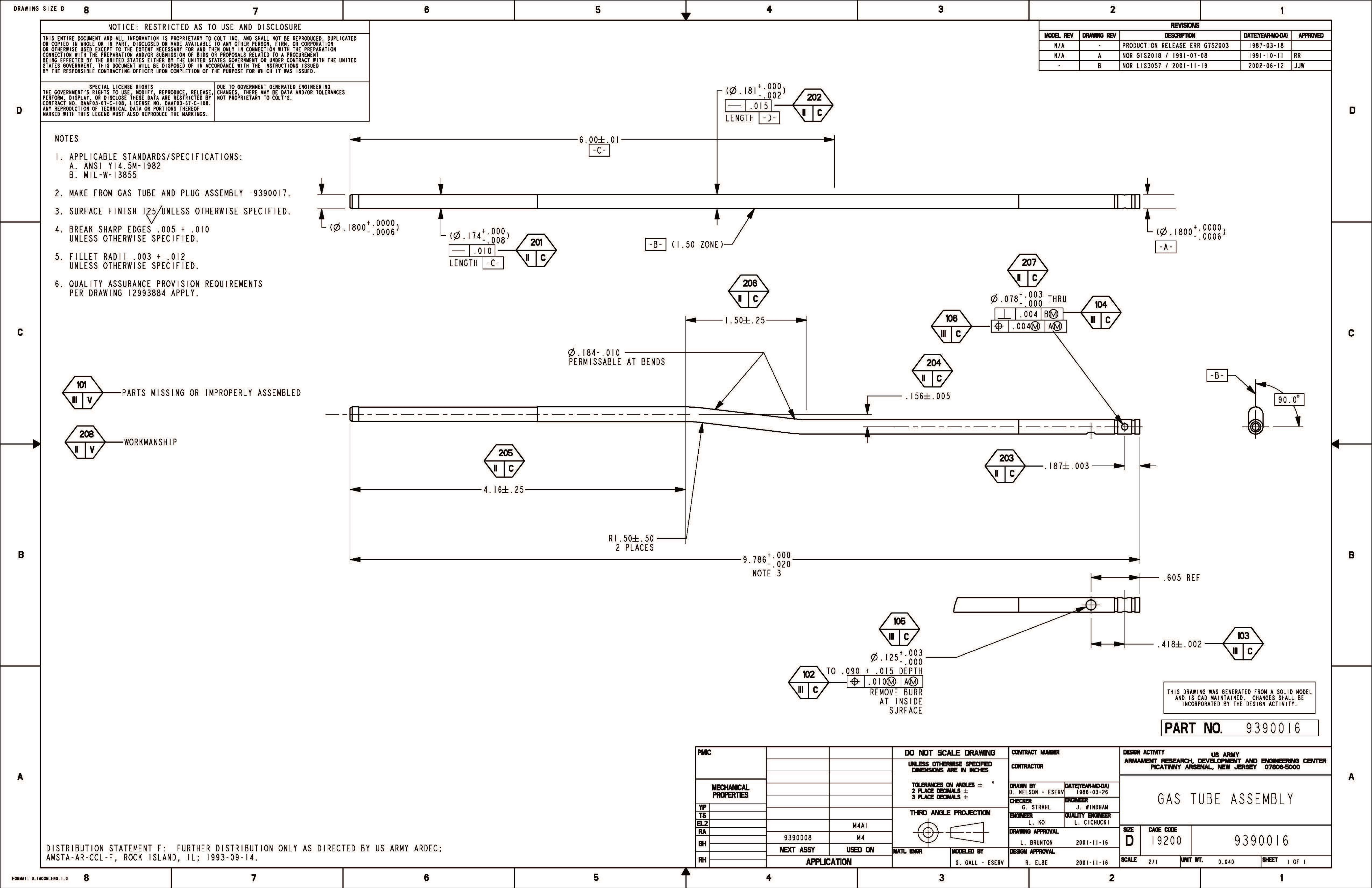




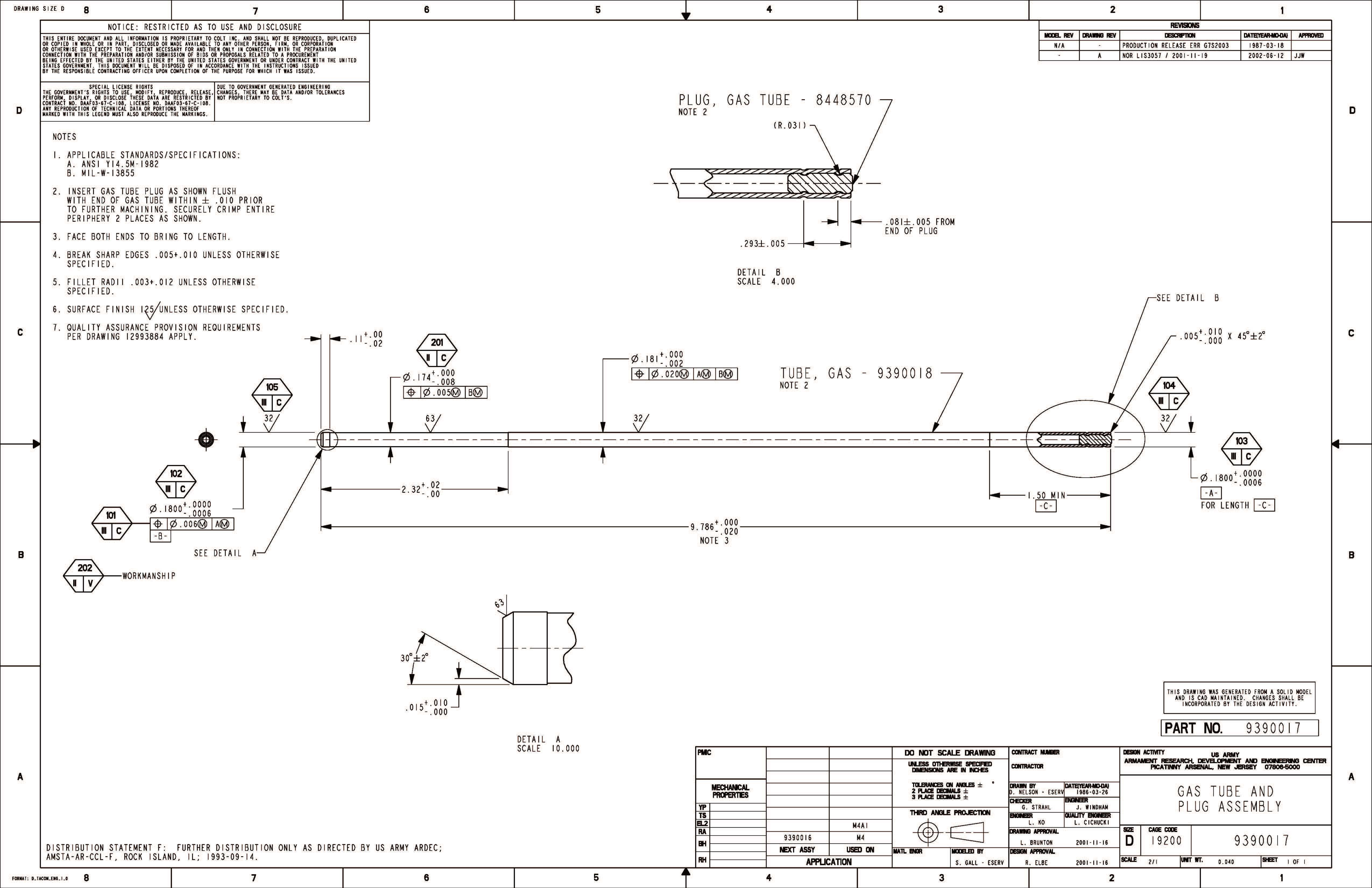




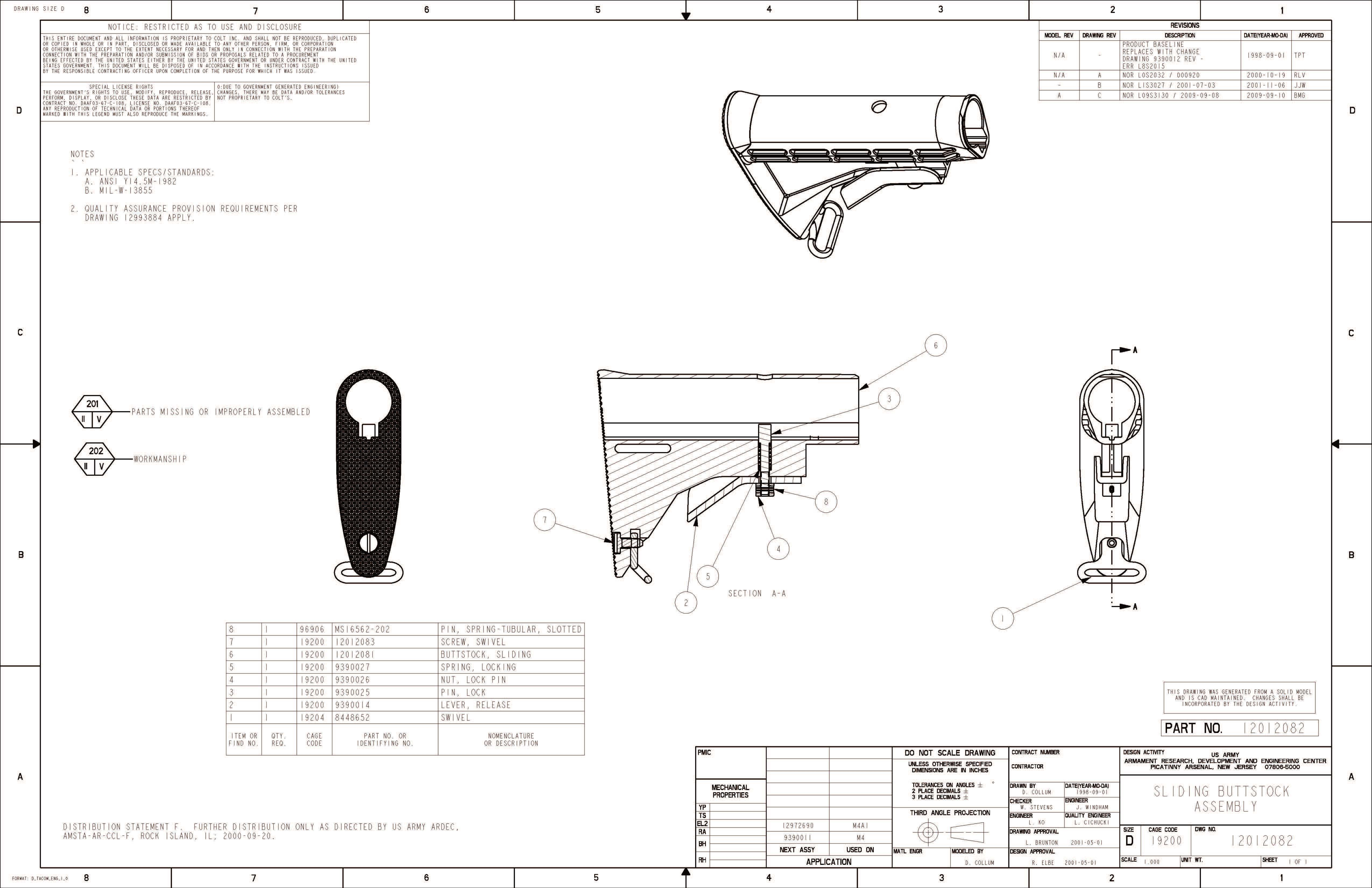














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C

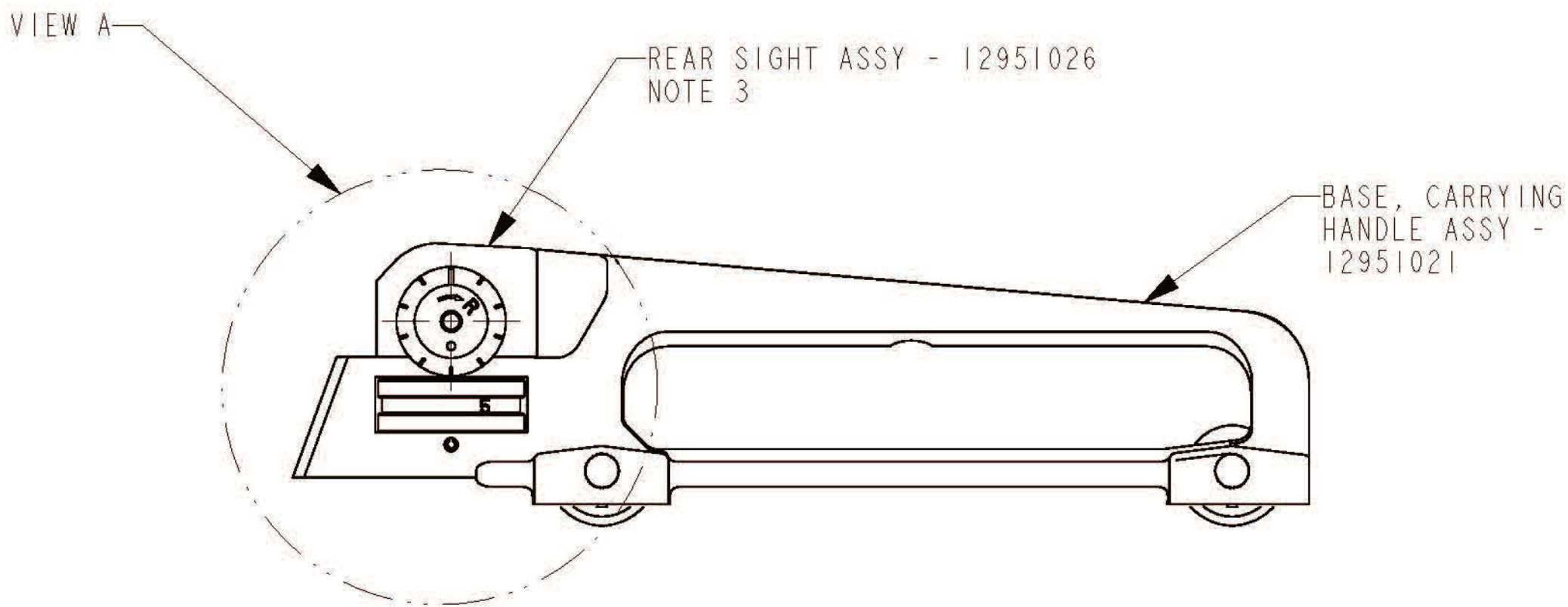
- NOTES
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100E  
B. ANSI Y14.5-1973  
C. MIL-W-13855

2. APPLY MIL-L-46000 OR MIL-L-63460 AT ASSY, TO COMPONENTS AND AREA INDICATED.

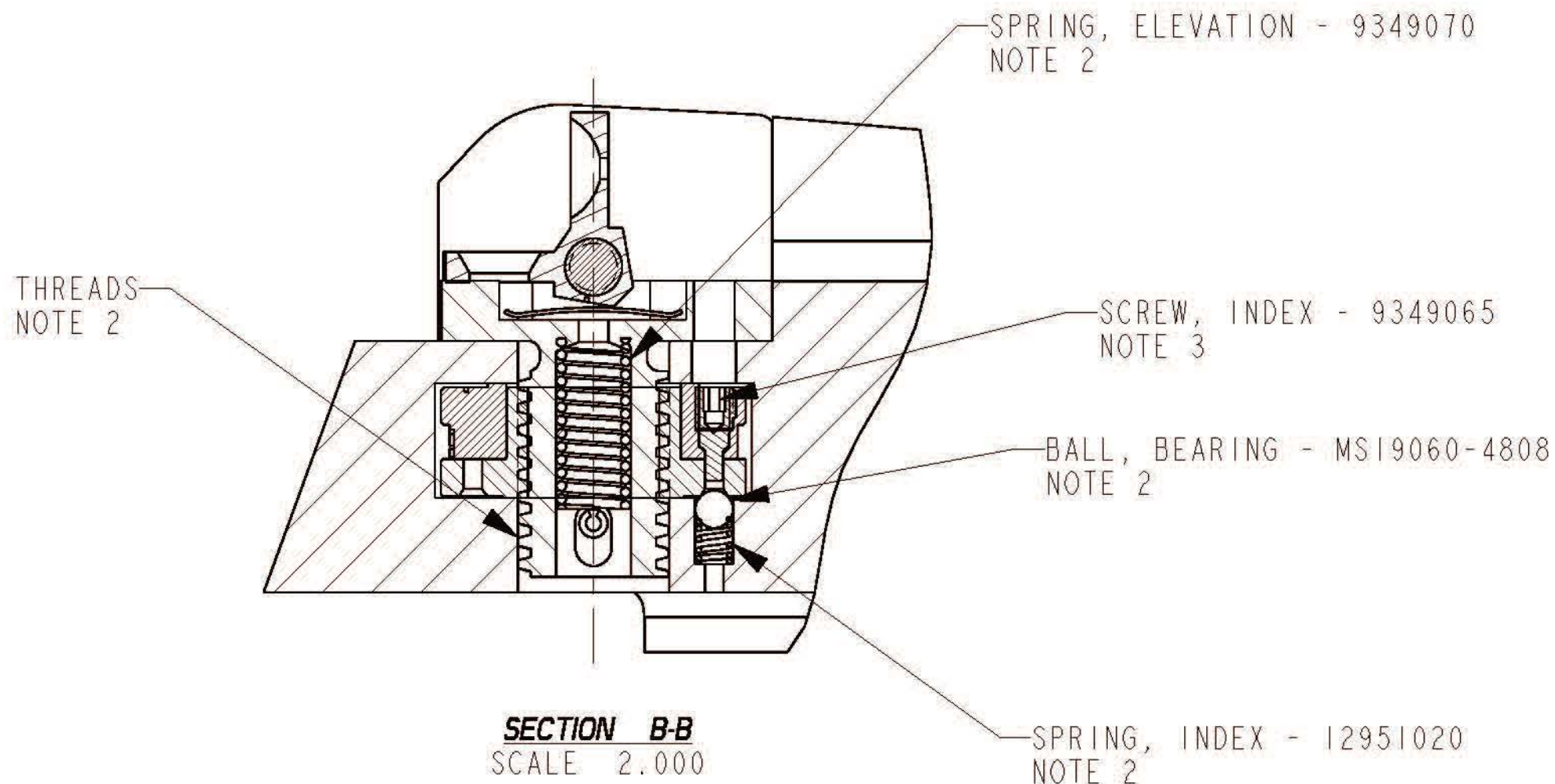
3. REAR SIGHT ADJUSTMENT PROCEDURE:  
A. TURN ELEVATION KNOB COUNTER CLOCKWISE UNTIL REAR SIGHT BASE BOTTOMS ONTO THE CARRYING HANDLE.  
B. TURN ELEVATION KNOB CLOCKWISE ONE CLICK.  
C. ALIGN THE 6/3 MARKING ON THE ELEVATION INDEX WITH THE SCRIBE MARK ON THE CARRYING HANDLE.  
D. INSTALL INDEX SCREW AND TIGHTEN TO BOTTOM.

4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

B



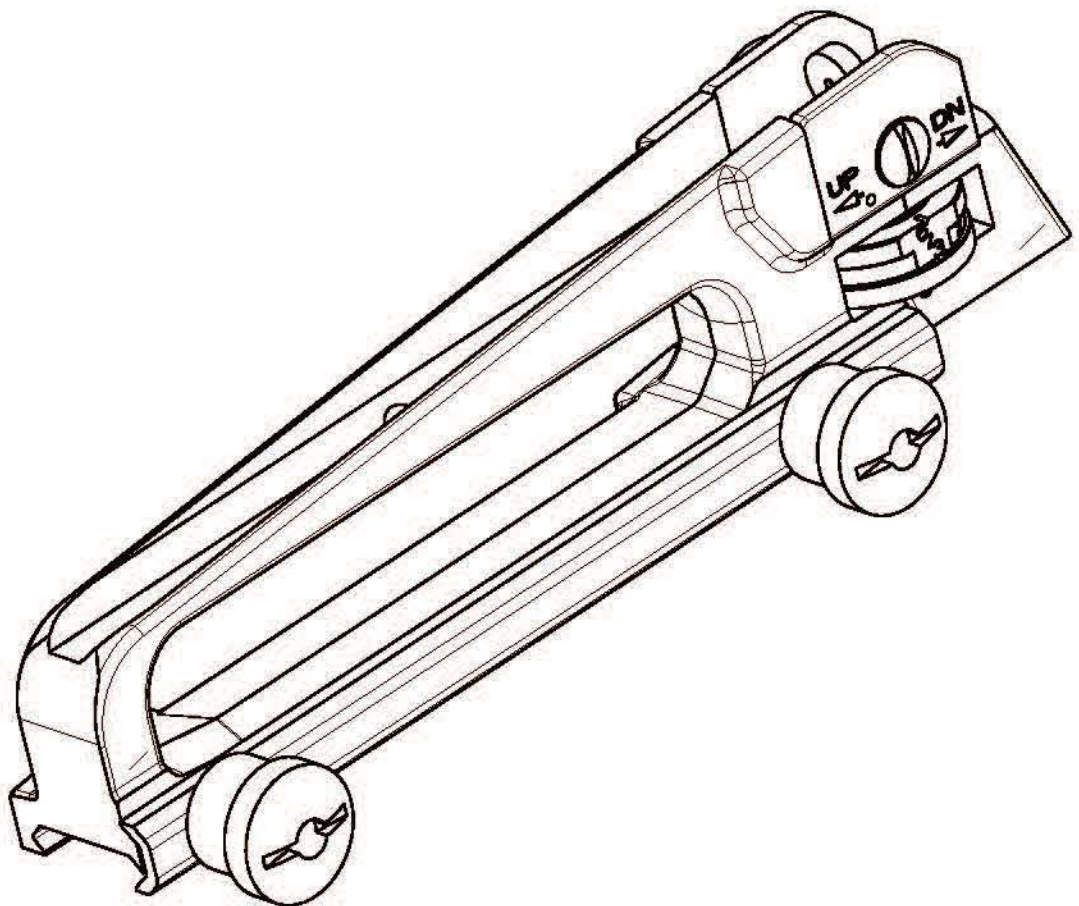
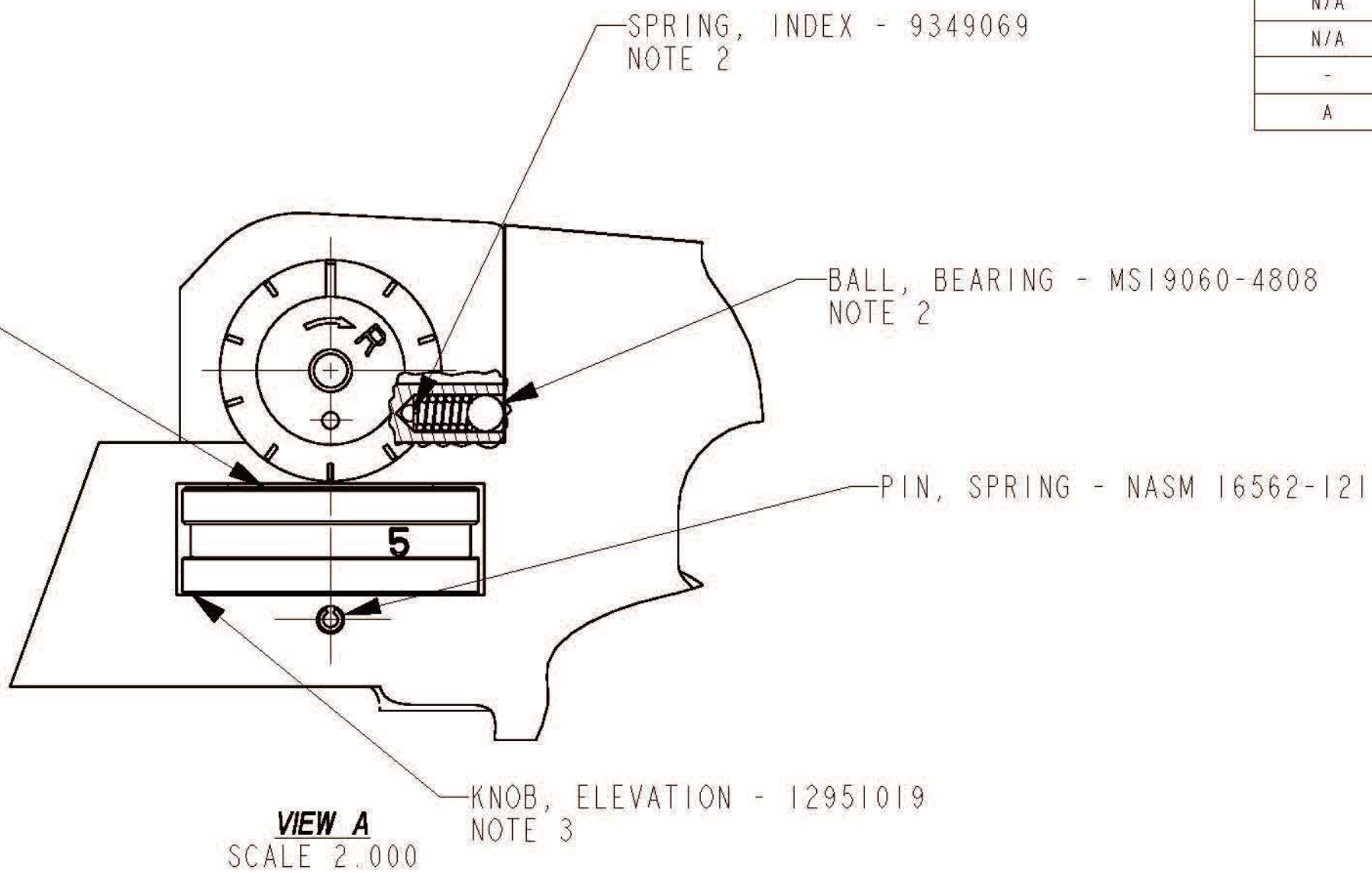
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DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY, ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR G4S2003	1994-01-31	JAW
N/A	A	NOR G6S3030 / 1996-05-03	1996-06-13	FET
N/A	B	NOR G6S3117 / 1996-07-19	1996-12-04	FET
N/A	C	NOR L0S3048 / 2001-02-27	2001-03-22	HJS
N/A	D	NOR L1S2102 / 2001-08-23	2001-09-26	RLV
-	E	NOR L2S3024 / 2002-05-21	2002-07-30	JJW
A	F	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

D



3D VIEW FOR REFERENCE ONLY  
SCALE 1.000

C

B

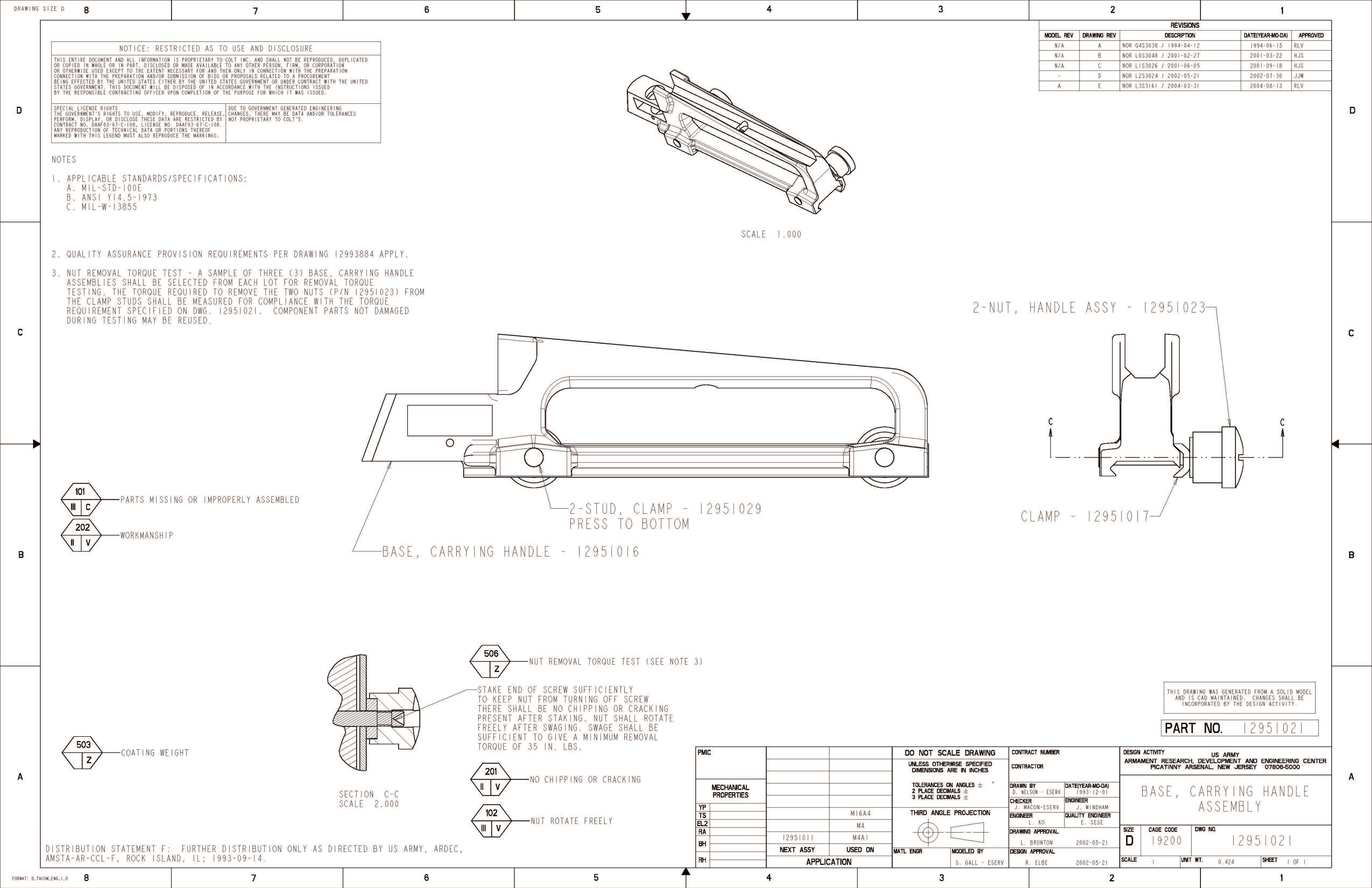
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PART NO. 12951011

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER	DESIGN ACTIVITY
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
YP		TOLERANCES ON ANGLES ± °		DRAWN BY	DATE(YEAR-MO-DA)
TS		2 PLACE DECIMALS ±		JASON H. - ESERV	1993-12-01
EL2		3 PLACE DECIMALS ±		CHECKER	ENGINEER
RA		THIRD ANGLE PROJECTION		J. MACON-ESERV	J. WINDHAM
BH		NEXT ASSY USED ON		ENGINEER	QUALITY ENGINEER
RH		APPLICATION		L. KO	E. SESE
		M4A1		DRAWING APPROVAL	
		M16A4		L. BRUNTON	2002-05-21
		12972700		DESIGN APPROVAL	
		M4A1		R. ELBE	2002-05-21
		M4A1		SCALE	UNIT WT. 0.552
		M4A1		SHEET	1 OF 1







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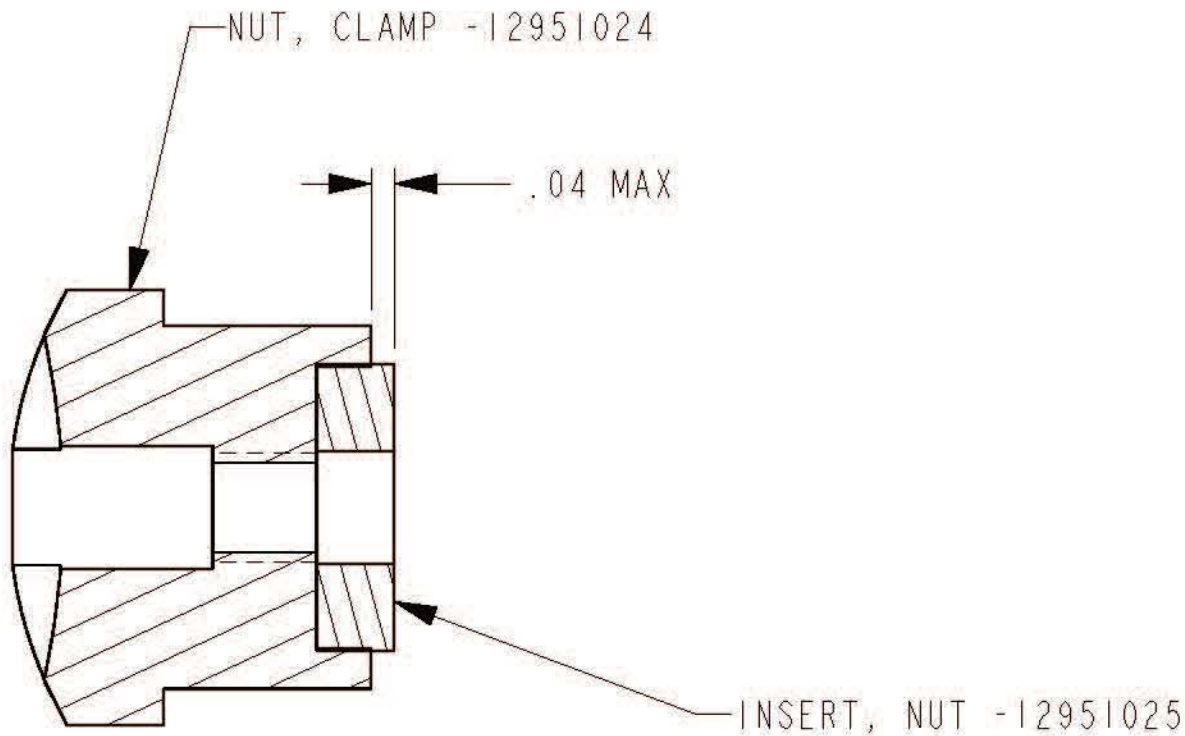
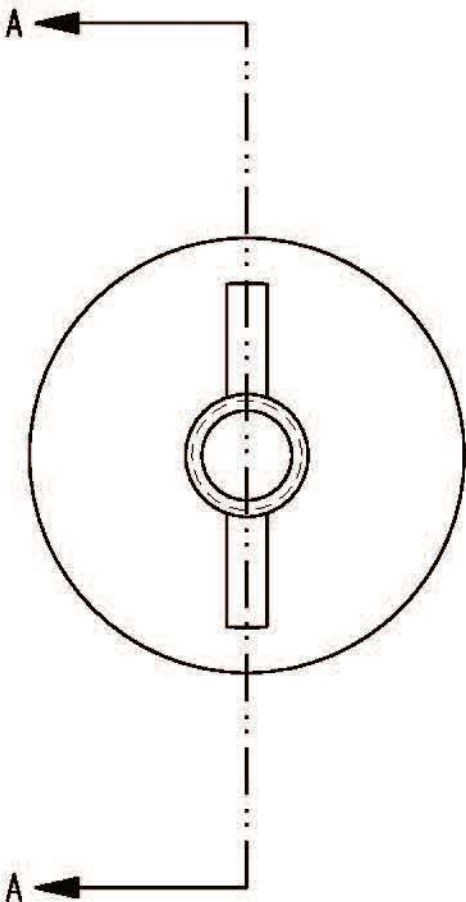
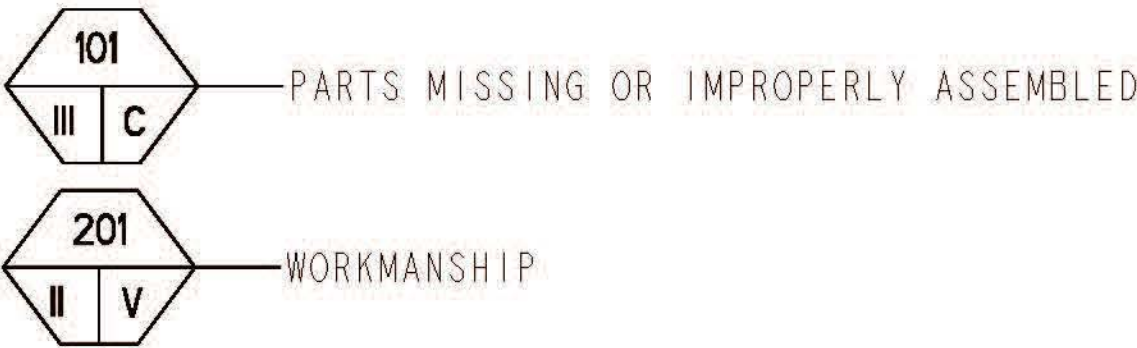
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR G4S2003	1994-01-31	
N/A	A	NOR G5S3108 / 1995-11-02	1995-12-11	RLV
-	B	NOR L2S3024 / 2002-05-21	2002-07-30	JJW

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. ANSI Y14.5-1973  
B. MIL-W-13855  
C. MIL-STD-100E
2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



SECTION A-A

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PART NO. 12951023

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY		
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000		
MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1993-12-01	NUT, HANDLE ASSEMBLY		
YP				THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM			
TS			M16A4			ENGINEER L. KO	QUALITY ENGINEER E. SESE			
EL2			M4			DRAWING APPROVAL L. BRUNTON 2002-05-21		SIZE C	CAGE CODE 19200	DWG NO. 12951023
RA		12951021	M4A1			DESIGN APPROVAL R. ELBE 2002-05-21		SCALE 3	UNIT WT. 0.052	SHEET 1 OF 1
BH		NEXT ASSY	USED ON	APPLICATION						
RH										

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D

C

B

A

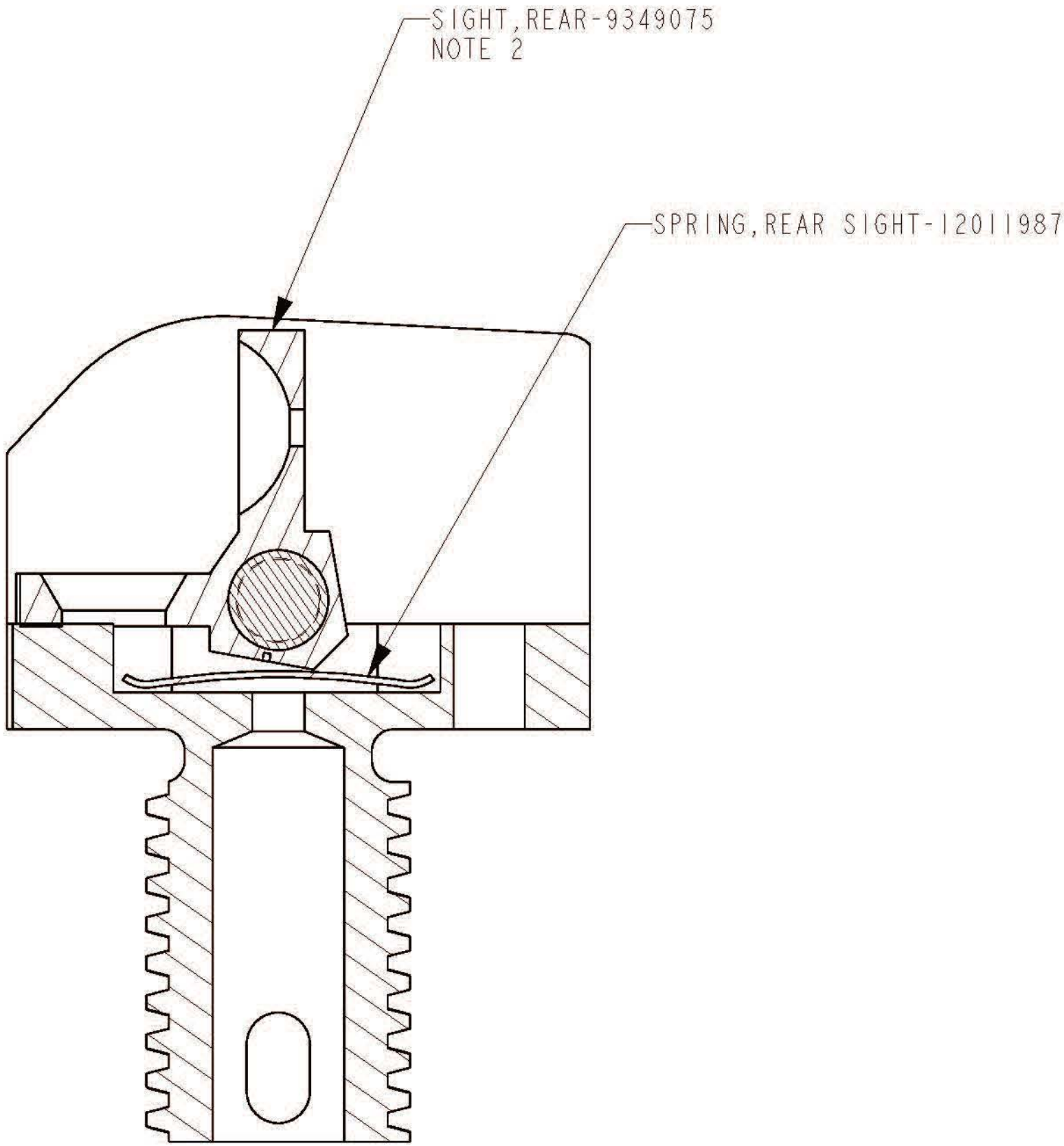
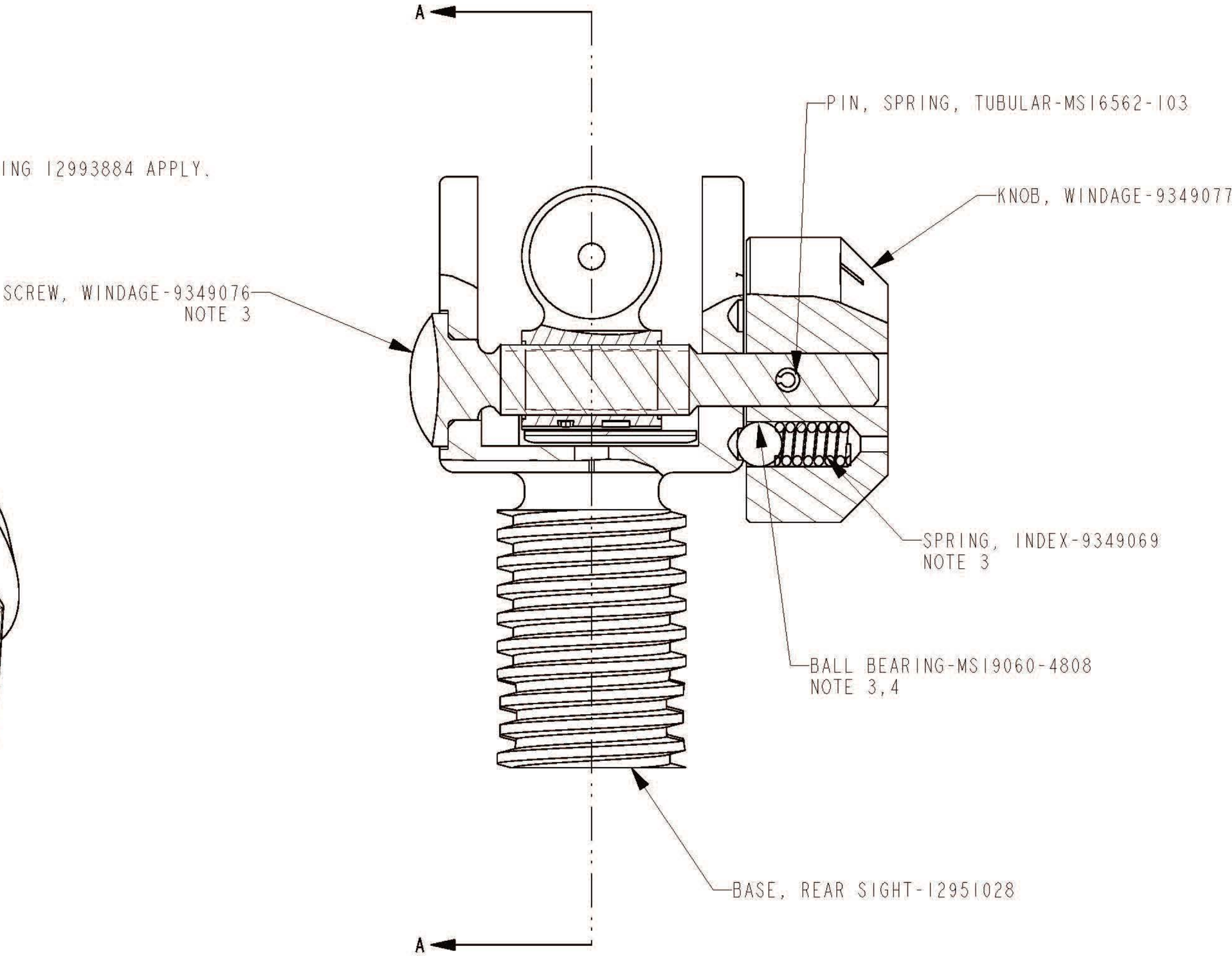
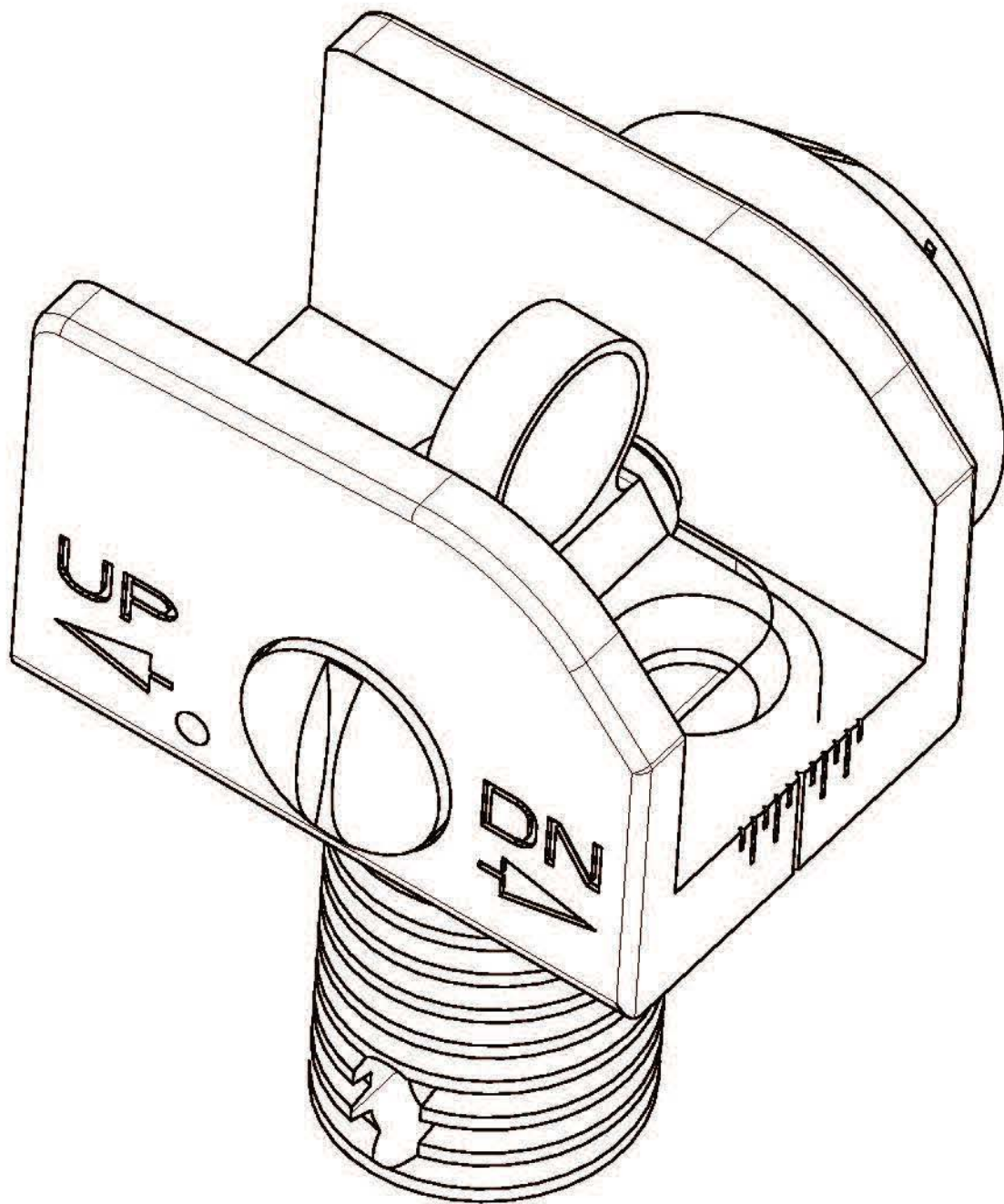
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- NOTES
- APPLICABLE STANDARDS/SPECIFICATIONS:
    - ANSI Y14.5-1973
    - MIL-W-13855
  - ASSEMBLE REAR SIGHT (9349075) WITH C'SINK IN DIRECTION SHOWN.
  - APPLY MIL-L-46000 (LSA), MIL-L-63460 (CLP), OR EQUIV TO INDEX SPRING (9349069), BALL BEARING (MSI9060-4808) AND WINDAGE SCREW (9349076) BEFORE ASSY.
  - AS AID TO ASSY APPLY LUBRIPLATE NO. 930-AA TO BALL BEARING (MSI9060-4808) AT ASSY WITH INDEX SPRING (9349069) AND WINDAGE KNOB (9349077) TO RETAIN BALL BEARING DURING ASSY WITH REAR SIGHT BASE (9349074).
  - QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



SECTION A-A

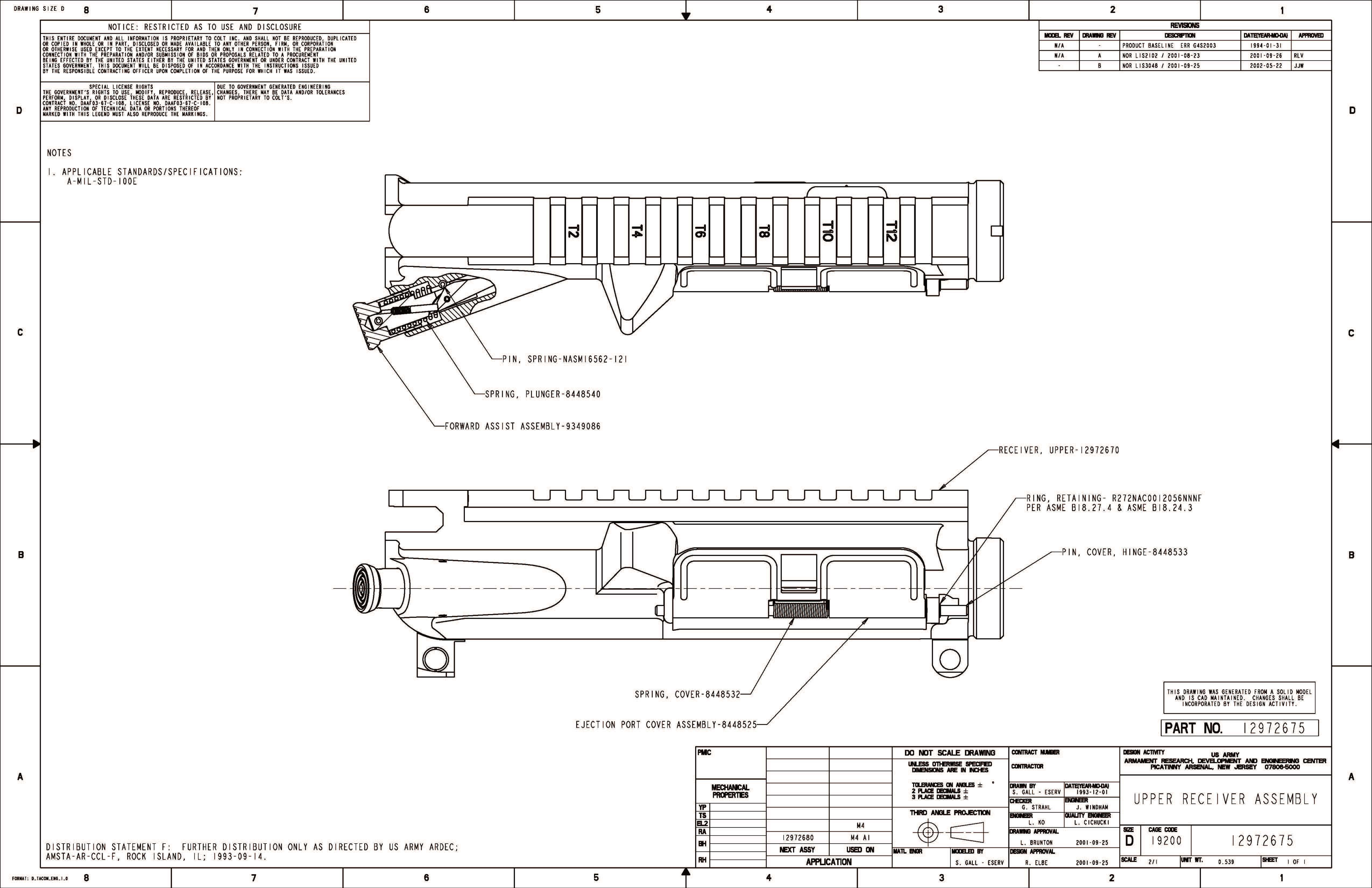
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PART NO. 12951026

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
MECHANICAL PROPERTIES		TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1982-06-09	REAR SIGHT ASSEMBLY	
YP		THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV	ENGINEER L. KO		
TS				ENGINEER J. WINDHAM	QUALITY ENGINEER E. SESE		
EL2				DRAWING APPROVAL L. BRUNTON 2002-05-21		SIZE D	CAGE CODE 19200
RA	9349062	M16A4		DESIGN APPROVAL R. ELBE 2002-05-21		DWG NO. 12951026	
BH	NEXT ASSY		USED ON			SCALE 4	UNIT WT. 0.114
RH	APPLICATION					SHEET 1 OF 1	







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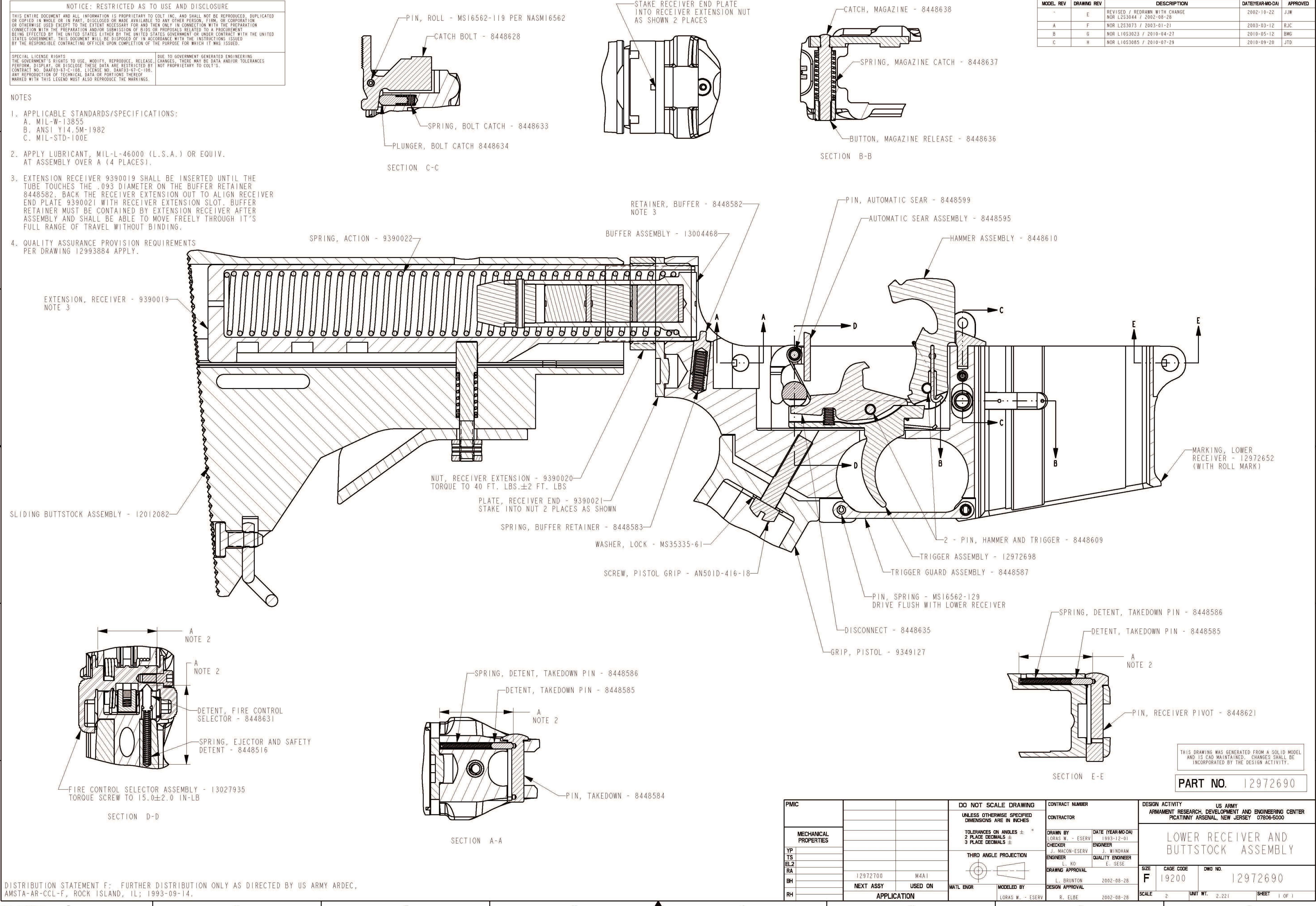
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- NOTES
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855  
B. ANSI Y14.5M-1982  
C. MIL-STD-100E

2. APPLY LUBRICANT, MIL-L-46000 (L.S.A.) OR EQUIV. AT ASSEMBLY OVER A (4 PLACES).

3. EXTENSION RECEIVER 9390019 SHALL BE INSERTED UNTIL THE TUBE TOUCHES THE .093 DIAMETER ON THE BUFFER RETAINER 8448582. BACK THE RECEIVER EXTENSION OUT TO ALIGN RECEIVER END PLATE 9390021 WITH RECEIVER EXTENSION SLOT. BUFFER RETAINER MUST BE CONTAINED BY EXTENSION RECEIVER AFTER ASSEMBLY AND SHALL BE ABLE TO MOVE FREELY THROUGH IT'S FULL RANGE OF TRAVEL WITHOUT BINDING.

4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

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MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
YP		TOLERANCES ON ANGLES ± °		DRAWN BY	DATE (YEAR-MO-DA)	LOWER RECEIVER AND BUTTSTOCK ASSEMBLY	
TS		2 PLACE DECIMALS ±		CHECKER	1993-12-01		
EL2		3 PLACE DECIMALS ±		ENGINEER	J. WINDHAM		
RA		THIRD ANGLE PROJECTION		ENGINEER	L. KO	SIZE	
BH				DESIGN APPROVAL	2002-08-28	F	
RH		APPLICATION		DESIGN APPROVAL	R. ELBE 2002-08-28	CAGE CODE	
						19200	
						DWG NO.	
						12972690	
						SCALE	
						2	
						UNIT WT.	
						2.221	
						SHEET	
						1 OF 1	



D

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NOTES

1. SPEC MIL-W-13855 AND ANSI Y14.5M-1982 APPLY.

2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

C

B

A

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FORMAT: D\_TACON\_ENG\_1.0

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR 64S3043	1994-09-23	HJS
-	A	NOR L2S3044 / 2002-08-28	2002-10-22	JJW

D

C

B

A

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PART NO. 12972698

PMIC

MECHANICAL PROPERTIES

YP

TS

EL2

RA

BH

RH

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES ON ANGLES ± °  
2 PLACE DECIMALS ±  
3 PLACE DECIMALS ±

THIRD ANGLE PROJECTION

MATL ENGR

MODELED BY

NEXT ASSY

USED ON

APPLICATION

CONTRACT NUMBER

CONTRACTOR

DRAWN BY  
T. KULIG - ESERV

DATE(YEAR-MO-DA)  
1994-09-23

CHECKER  
J. MACON-ESERV

ENGINEER  
J. WINDHAM

ENGINEER  
L. KO

QUALITY ENGINEER  
E. SESE

DRAWING APPROVAL  
L. BRUNTON

2002-08-28

DESIGN APPROVAL  
R. ELBE

2002-08-28

DESIGN ACTIVITY

US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

TRIGGER ASSEMBLY

SIZE  
D

CAGE CODE  
19200

DWG NO.  
12972698

SCALE  
4

UNIT WT.  
0.063

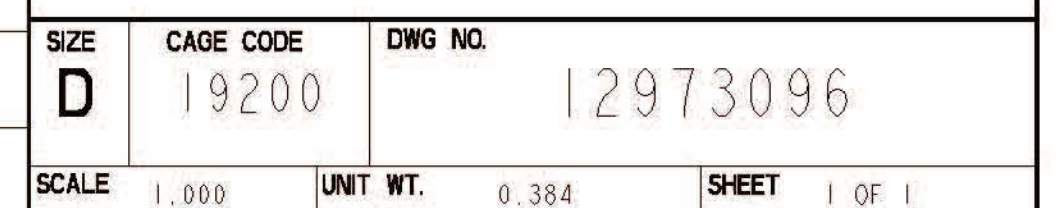
SHEET  
1 OF 1

FORMAT: D\_TACON\_ENG\_1.087654321



3. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.

C	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV
A	D NOR L09S3027 / 2009-04-17	2009-05-04	BMG



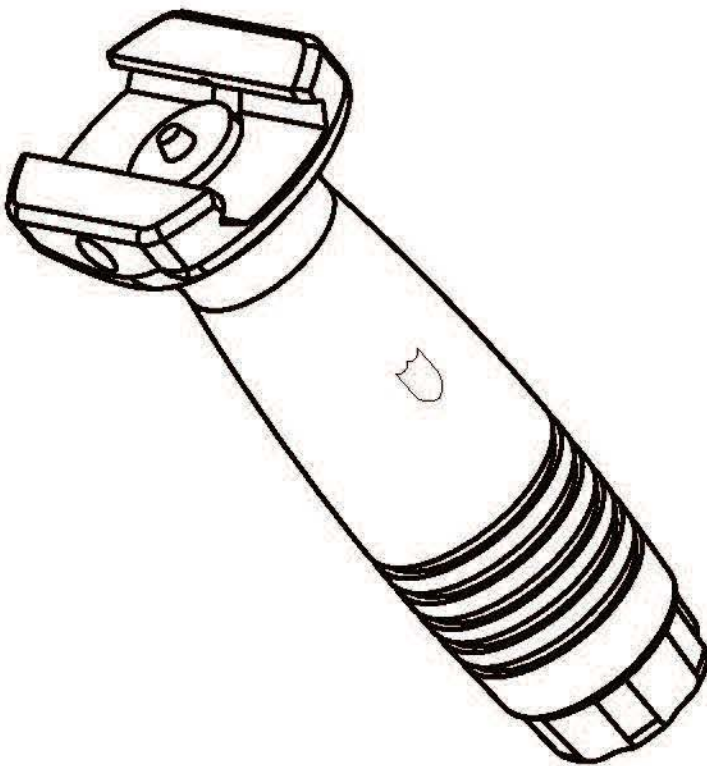
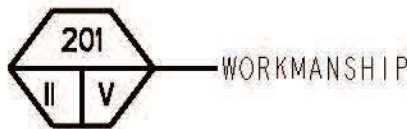
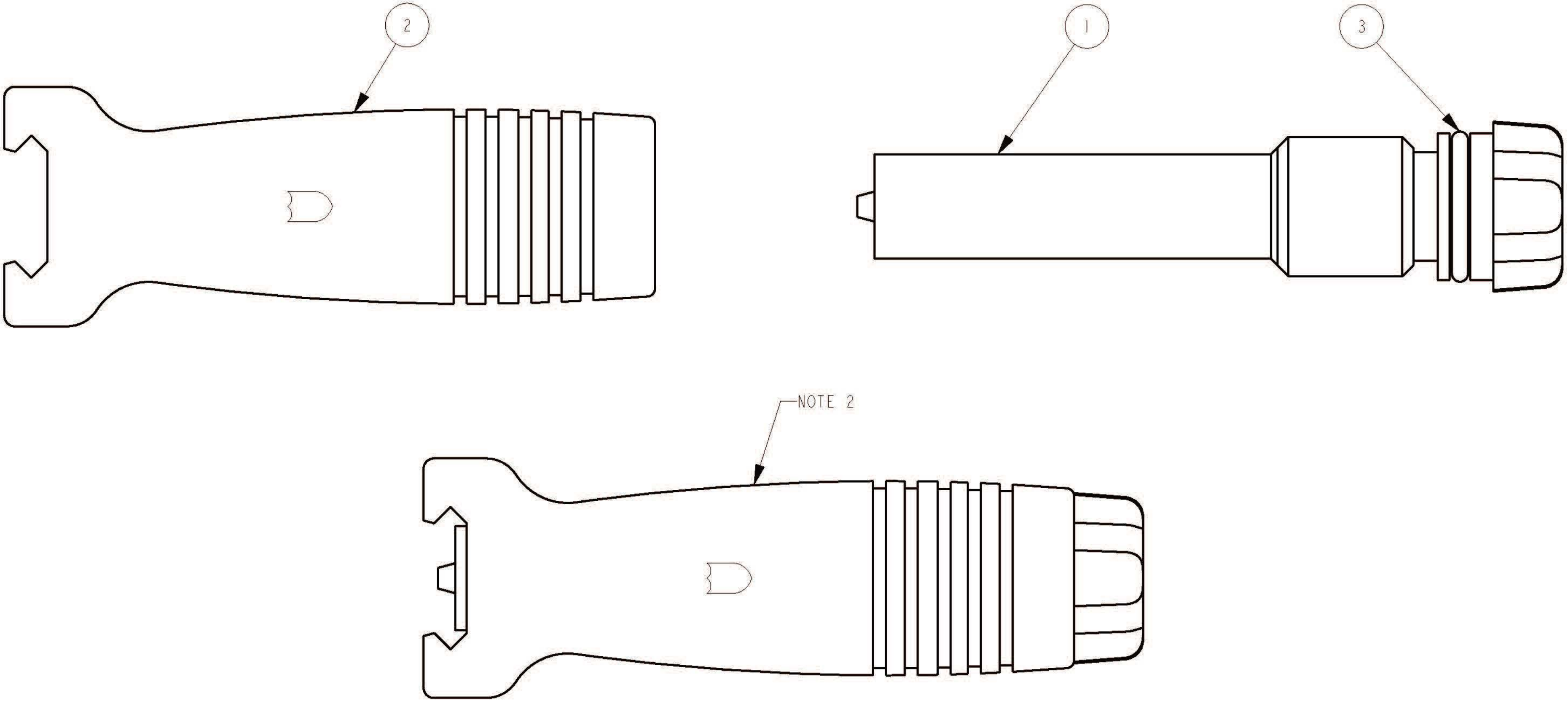






- NOTES
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.
  2. ASSEMBLE AS SHOWN.
  3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	A	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L10S3085 / 2010-07-29	2010-09-20	JTD



ISOMETRIC VIEW  
SCALE 1.000

3	1	81343	AS568-116	O-RING	BUNA-N (NITRILE)
2	1	19200	12973102	VERTICAL PISTOL GRIP	
1	1	19200	12973103	LOCK AND CAP ASSEMBLY	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

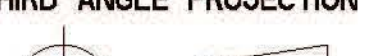
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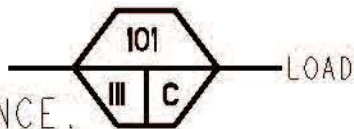
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				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000					
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 1997-11-13		VERTICAL PISTOL GRIP ASSEMBLY			
YP				THIRD ANGLE PROJECTION		CHECKER D. COLLUM		ENGINEER A. FOLTZ					
TS			M4A1			ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG					
EL2		12973095	M4			DRAWING APPROVAL J. WINDHAM 2006-01-24		DESIGN APPROVAL T. KARCHER 2006-01-24		SIZE D		CAGE CODE 19200	
RA		12973020	M16A4	MATL ENGR		MODELED BY R. BROWN							
BH		NEXT ASSY USED ON											
RH		APPLICATION								SCALE 2.000 UNIT WT. 0.171 SHEET 1 OF 1			

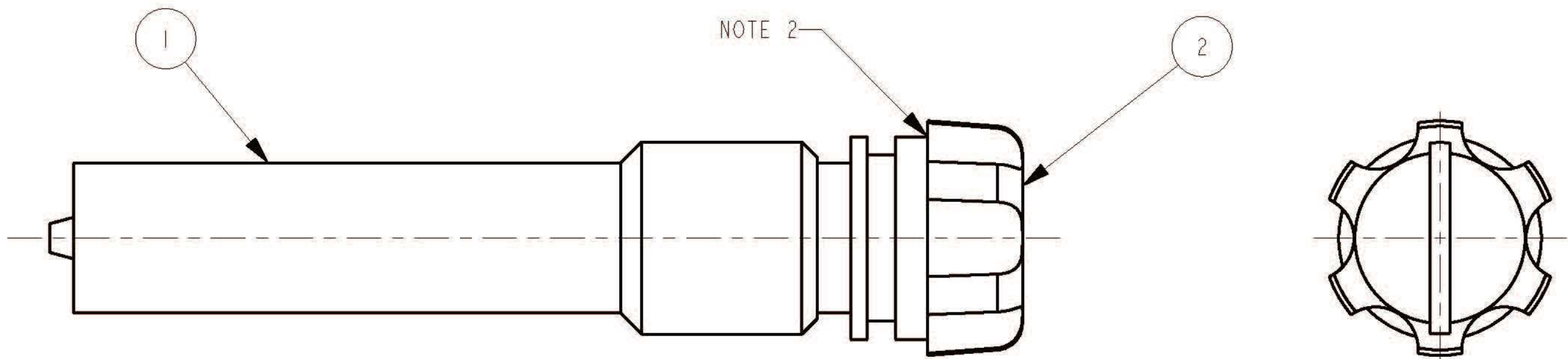


NOTES

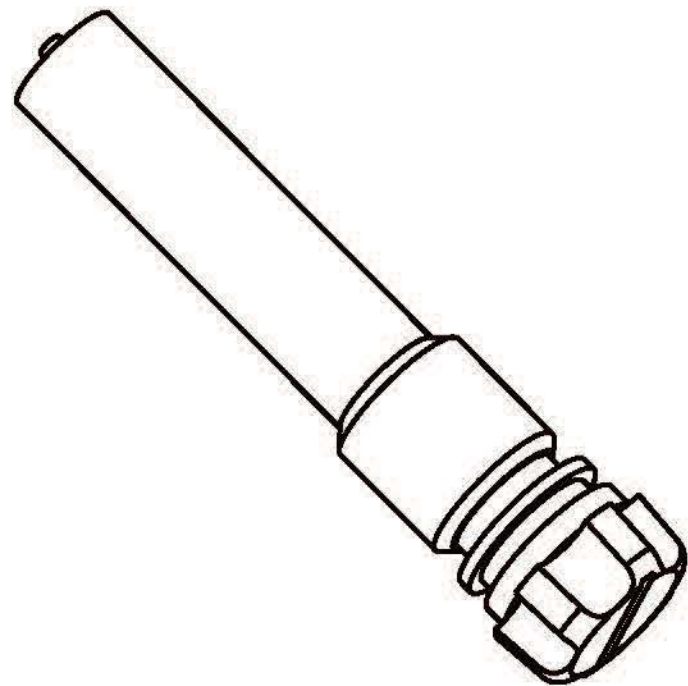
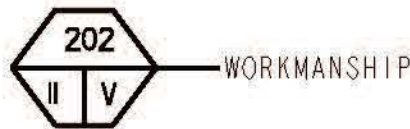
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.
2. ULTRASONIC WELD ALL-AROUND AFTER ASSEMBLY. AWS G1.1M/G1.1 (GUIDE) MAY BE USED AS GUIDANCE. AFTER WELDING, WITH LOCK 12973104 HELD FIRMLY IN PLACE, CAP 12973105 SHALL WITHSTAND AN AXIAL LOAD OF 60 LB MIN FOR AT LEAST 3 SECONDS WITHOUT WELD FAILURE.
3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.
4. FOR ALTERNATE, SINGLE-COMPONENT DESIGN, SEE SHEET 2.



REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
	A	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L07S3125 / 2007-12-06	2007-12-20	BMG



2	1	19200	12973105	VERTICAL PISTOL GRIP LOCK CAP	
1	1	19200	12973104	VERTICAL PISTOL GRIP LOCK	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS



ISOMETRIC VIEW  
SCALE: 1.000

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO DOD AND DOD CONTRACTORS ONLY; 2005-10-26. OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO US ARMY ARDEC, AMSRD-AAR-AIS, ROCK ISLAND, IL.

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REV STATUS OF SHEETS	REV	B	B
	SHEET	1	2

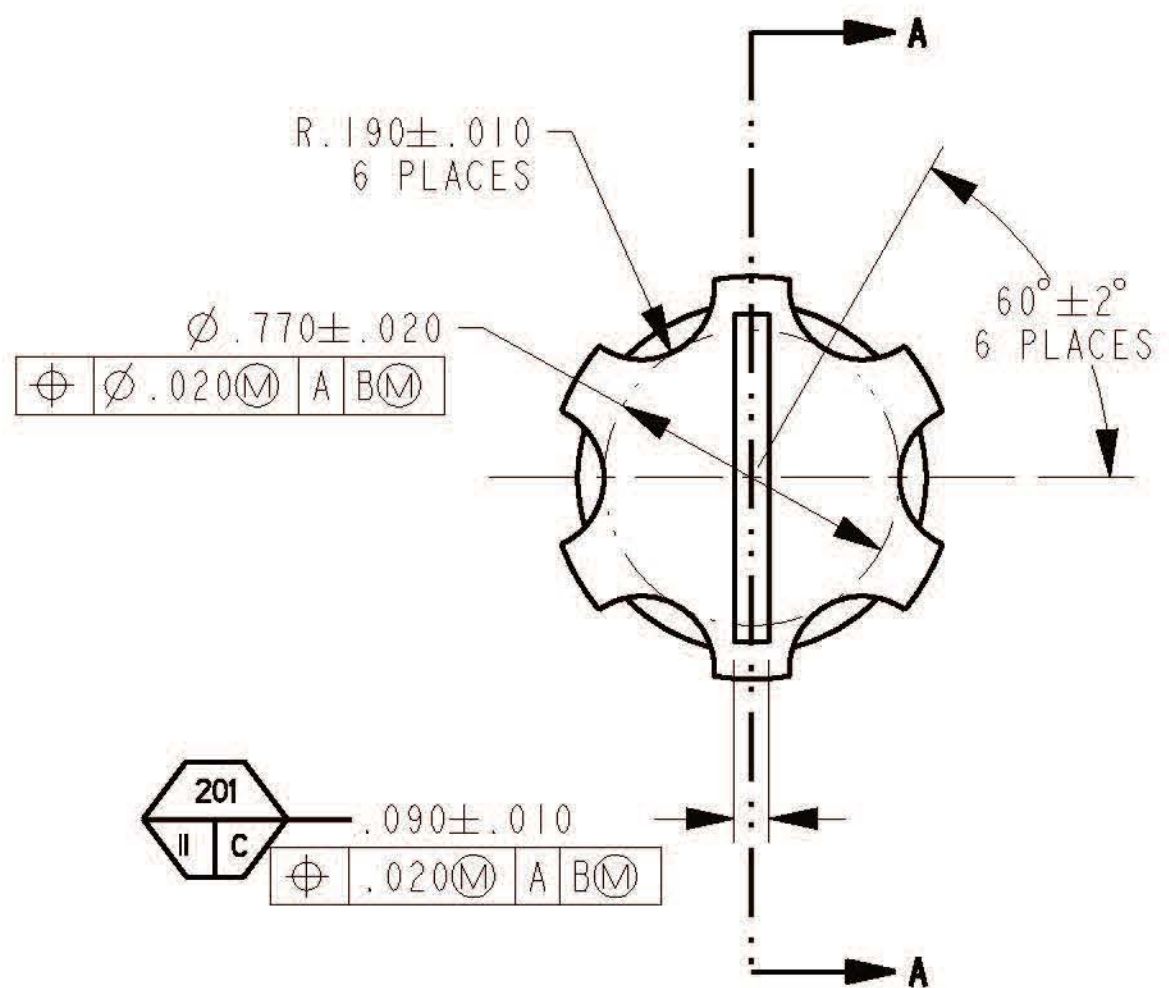
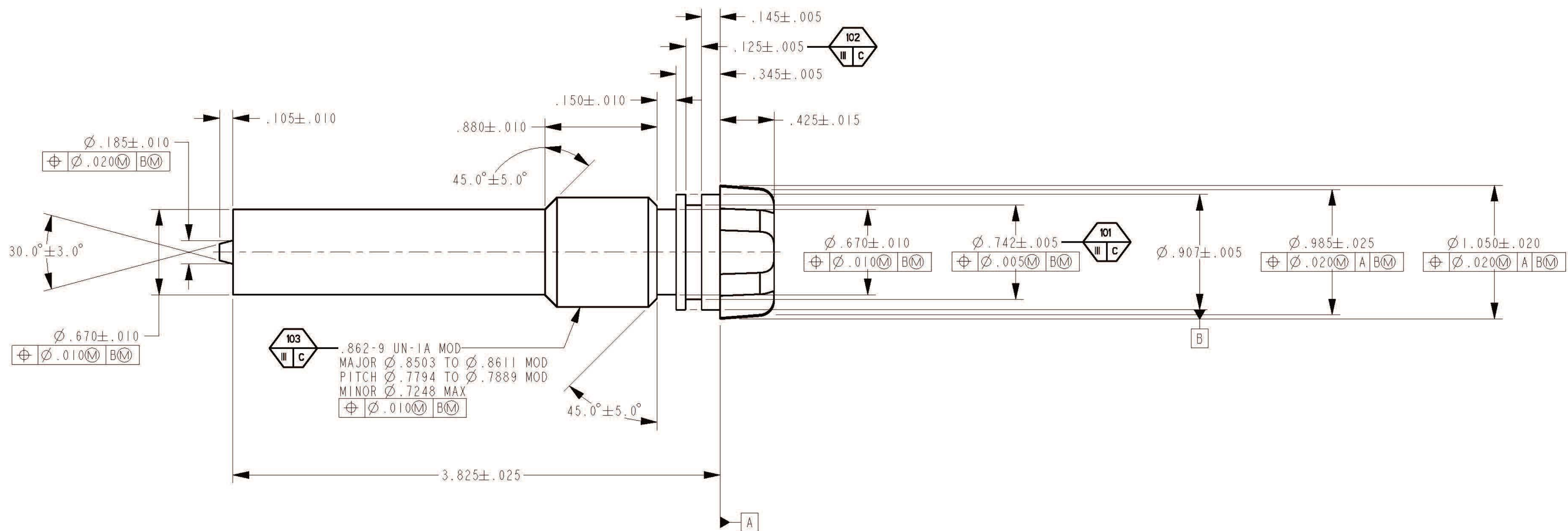
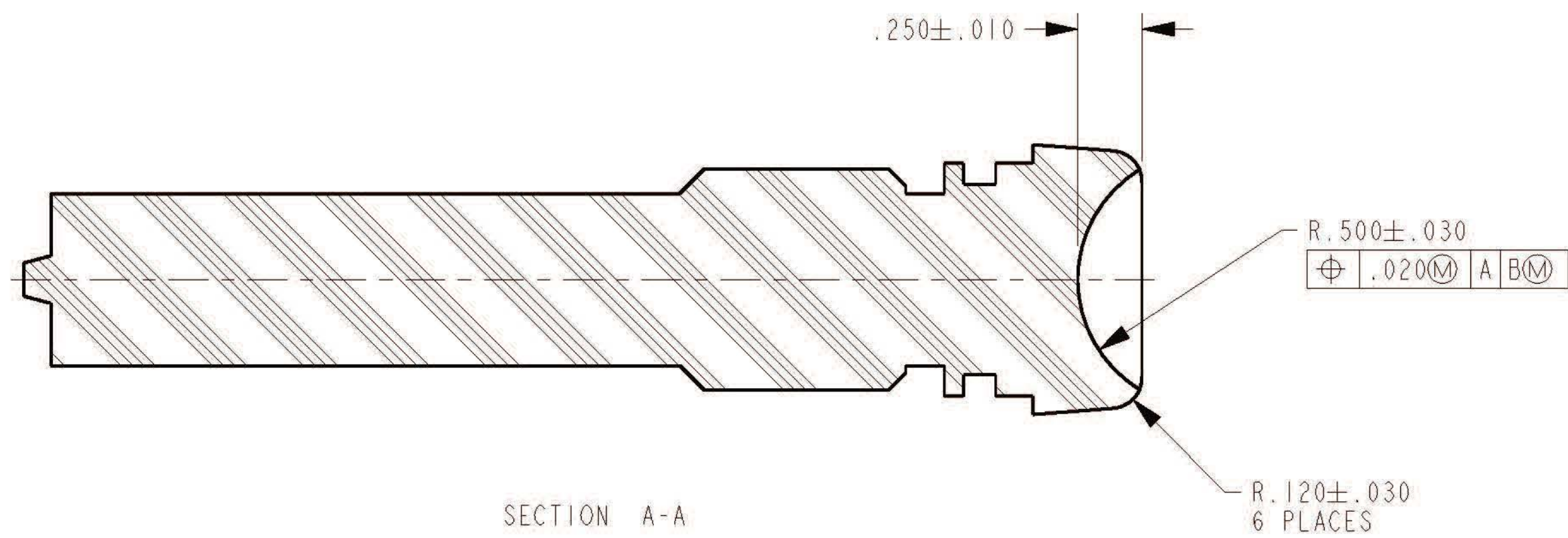
THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12973103

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
MECHANICAL PROPERTIES		TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 1997-11-13	LOCK AND CAP ASSEMBLY	
YP		THIRD ANGLE PROJECTION		CHECKER D. COLLUM	ENGINEER A. FOLTZ		
TS				ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG		
EL2				DRAWING APPROVAL J. WINDHAM 2006-01-24		SIZE D	CAGE CODE 19200
RA				DESIGN APPROVAL T. KARCHER 2006-01-24		DWG NO. 12973103	
BH		NEXT ASSY USED ON				SCALE 2.000	UNIT WT. 0.055
RH		APPLICATION				SHEET 1 OF 2	



REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
	A	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L07S3125 / 2007-12-06	2007-12-20	BMG



ALTERNATE DESIGN

PART NO. 12973103

DISTRIBUTION STATEMENT D. DISTRIBUTION AUTHORIZED TO  
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DESIGN ACTIVITY US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

LOCK AND CAP ASSEMBLY

SIZE	CAGE CODE	DWG NO.
D	19200	12973103
SCALE	2:000	UNIT WT. 0.081
SHEET	2 OF 2	



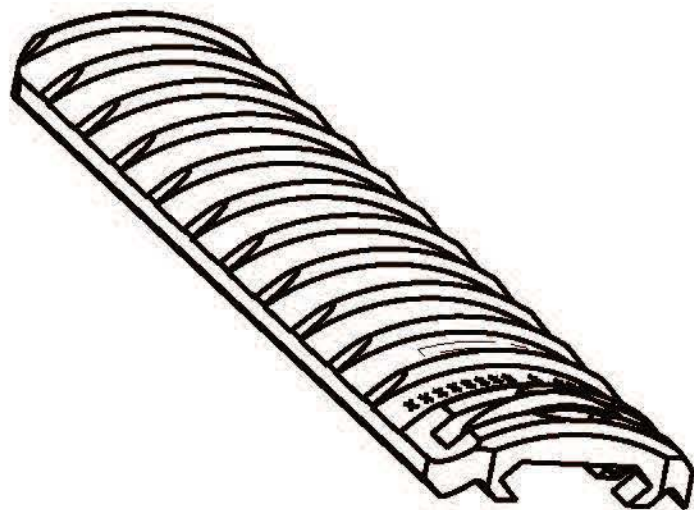
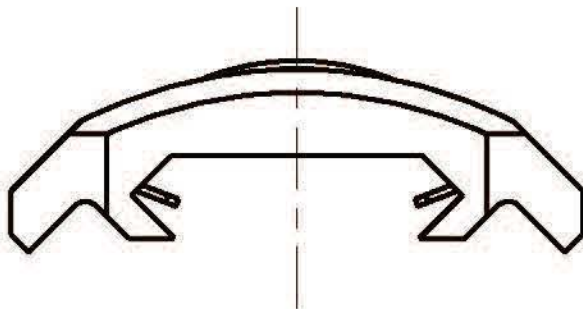
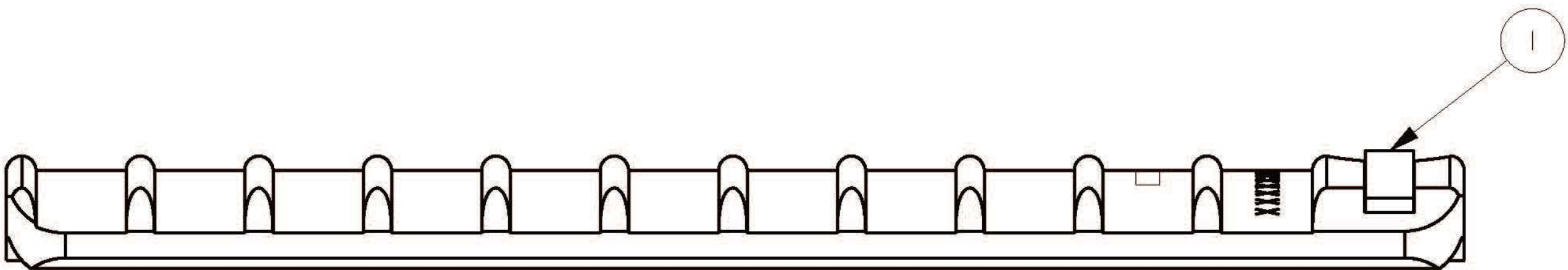
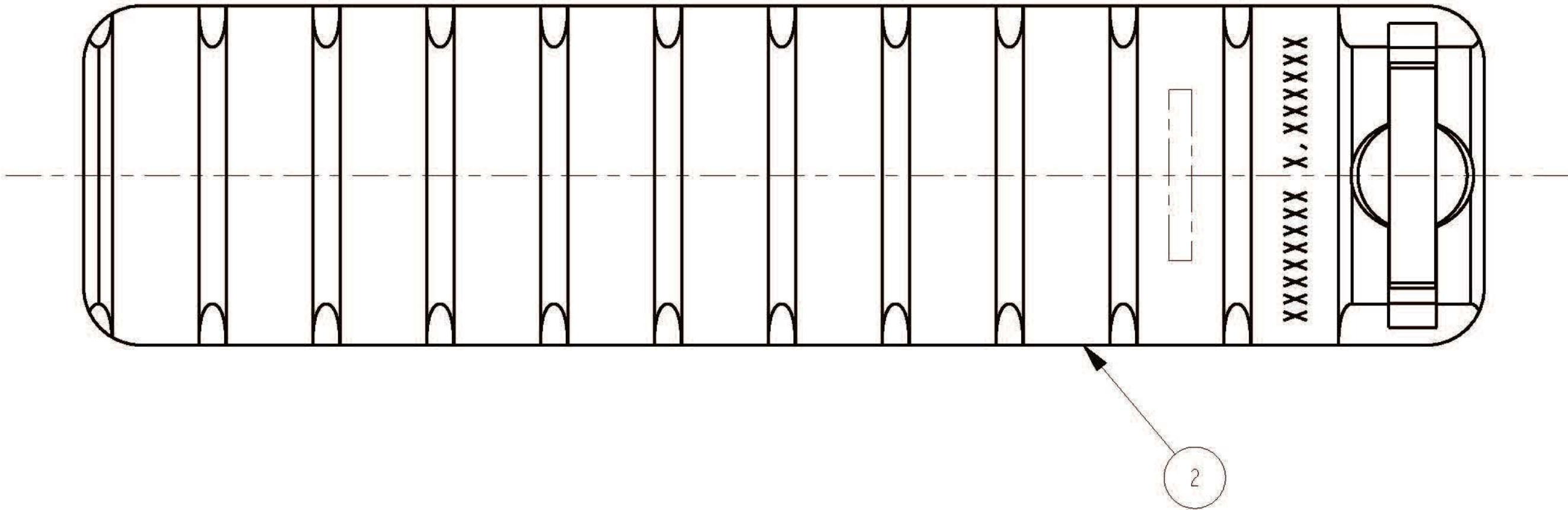
NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.

2. ASSEMBLE AS SHOWN.

3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR L7S3070	1998-08-25	RJC
N/A	A	NOR L8S3045 / 1998-10-13	1998-12-08	RJC
-	B	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV



ISOMETRIC VIEW  
SCALE 1.000

2	I	19200	12973133-11	RAIL COVER	
1	I	19200	12973131	RAIL COVER SPRING	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12973132

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GOVERNMENT PURPOSE RIGHTS

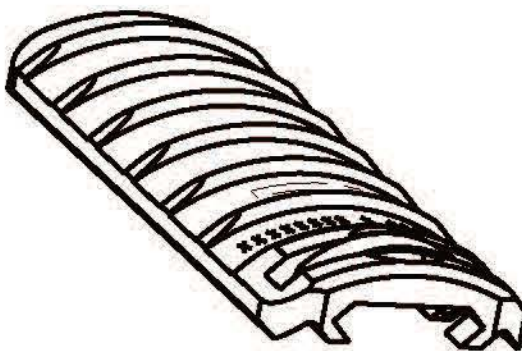
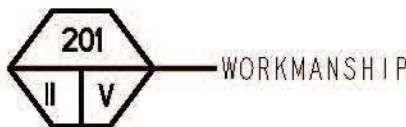
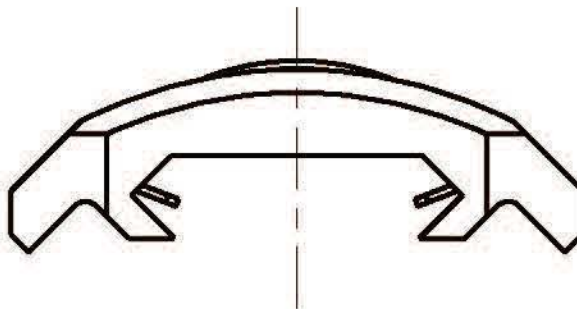
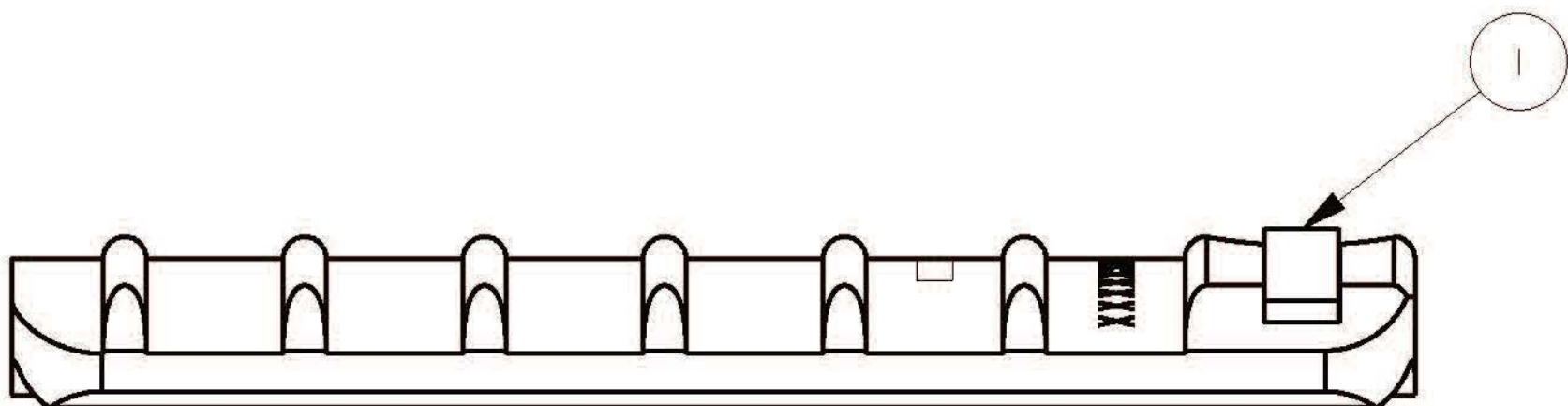
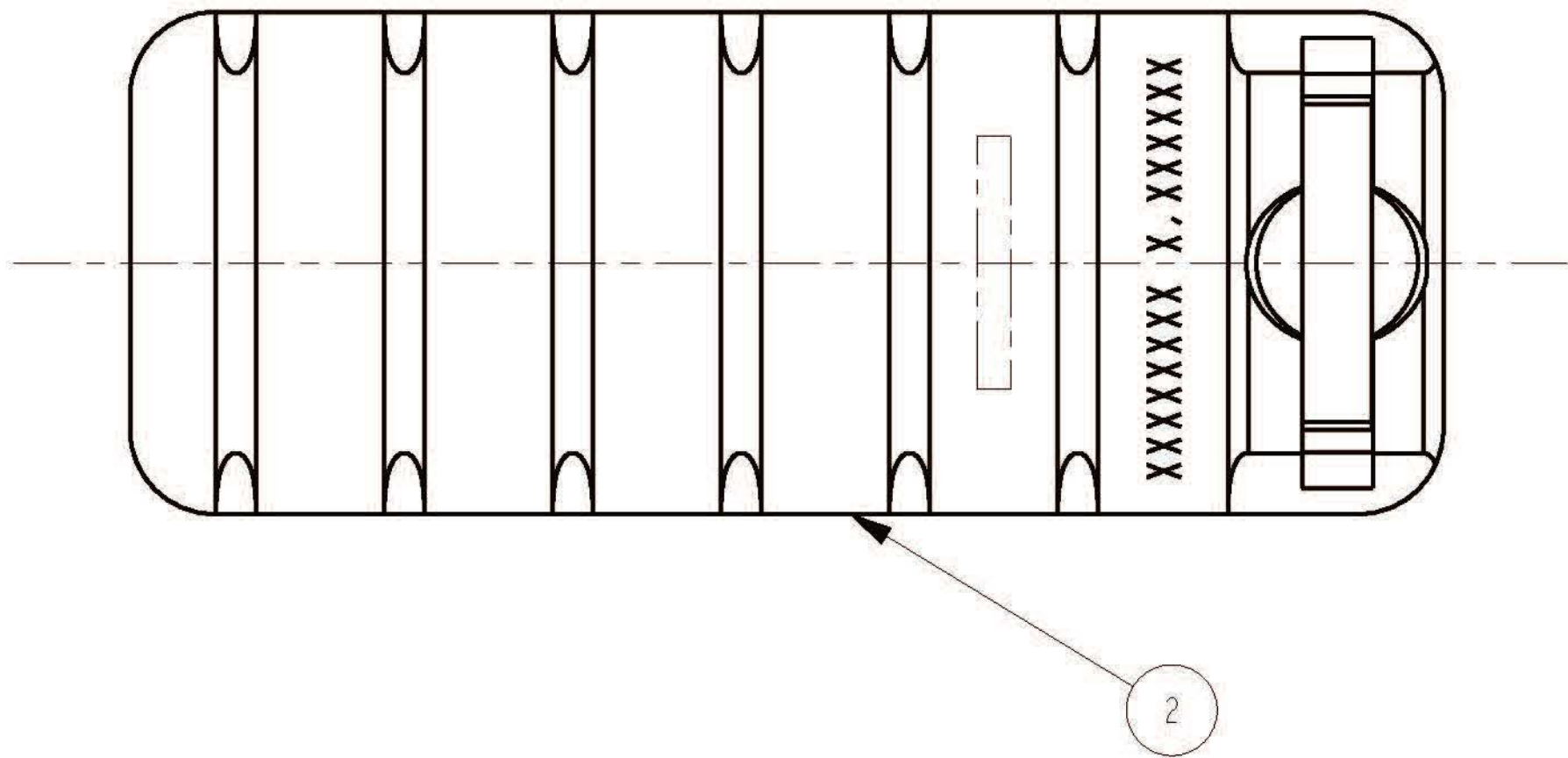
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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY								
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000								
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 1997-11-13		11 RIB RAIL COVER ASSEMBLY						
YP				THIRD ANGLE PROJECTION		CHECKER D. COLLUM		ENGINEER A. FOLTZ								
TS			M4A1			ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG								
EL2		12973095	M4			DRAWING APPROVAL J. WINDHAM		2006-01-24								
RA		12973020	M16A4			DESIGN APPROVAL T. KARCHER		2006-01-24		SIZE D		CAGE CODE 19200		DWG NO. 12973132		
BH			NEXT ASSY	USED ON		MATL ENGR		MODELED BY R. BROWN		SCALE 2.000		UNIT WT. 0.063		SHEET 1 OF 1		
RH			APPLICATION													



- NOTES
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.
  2. ASSEMBLE AS SHOWN.
  3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR L7S3070	1998-08-25	RJC
N/A	A	NOR L8S3045 / 1998-10-13	1998-12-08	RJC
-	B	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV



ISOMETRIC VIEW  
SCALE 1.000

2	I	19200	12973133-6	RAIL COVER	
1	I	19200	12973131	RAIL COVER SPRING	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

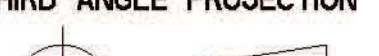
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PART NO. 12973135

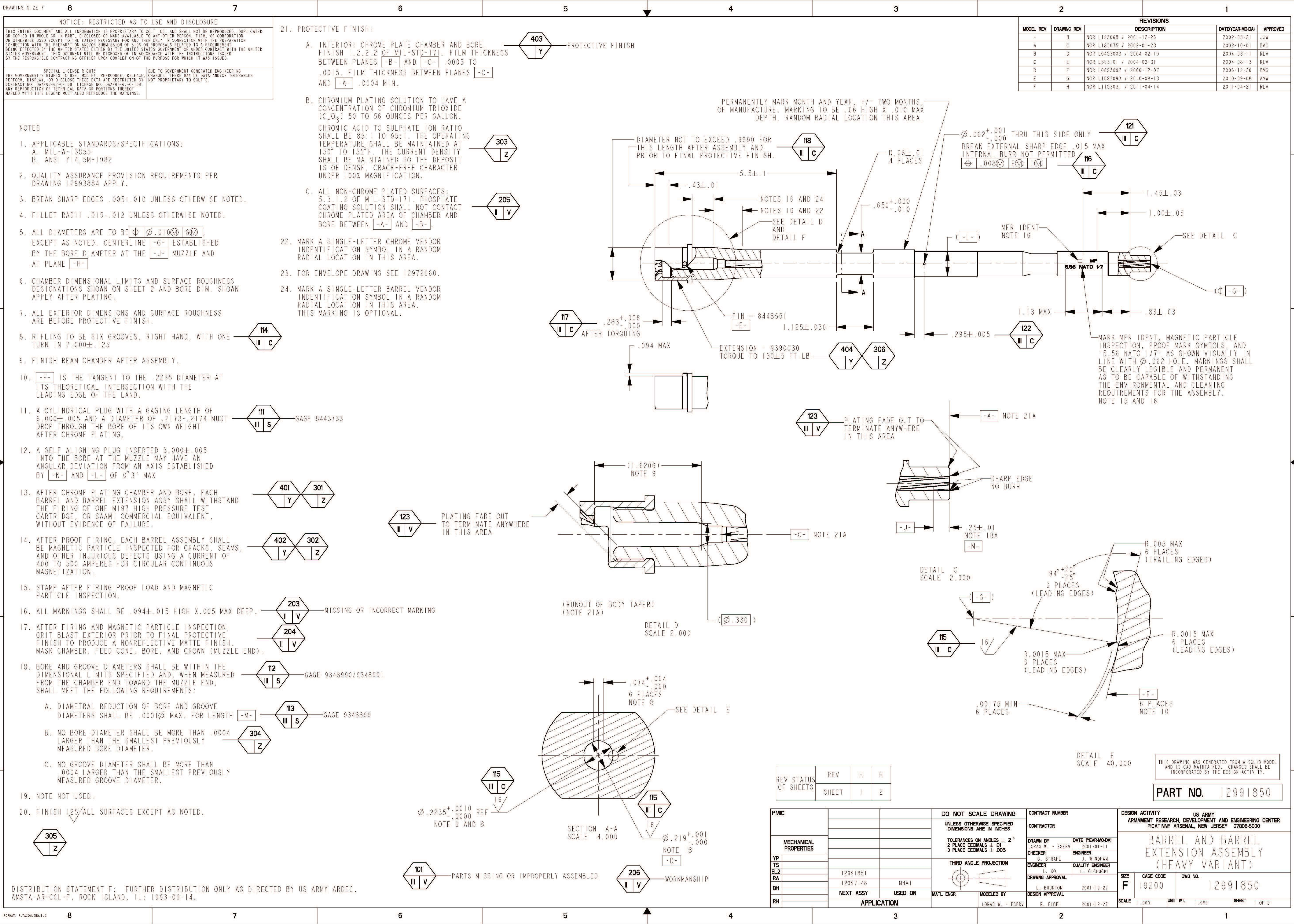
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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY					
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000					
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 1997-11-13		6 RIB RAIL COVER ASSEMBLY			
YP						CHECKER D. COLLUM		ENGINEER A. FOLTZ					
TS			M4A1	THIRD ANGLE PROJECTION		ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG					
EL2		12973095	M4			DRAWING APPROVAL J. WINDHAM 2006-01-24		SIZE D					
RA		12973020	M16A4			DESIGN APPROVAL T. KARCHER 2006-01-24		SCALE 2.000		UNIT WT. 0.041		SHEET 1 OF 1	
BH			NEXT ASSY	USED ON	MATL ENGR	MODELED BY R. BROWN							
RH			APPLICATION										





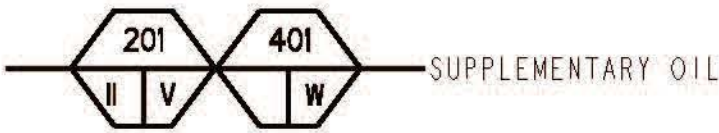




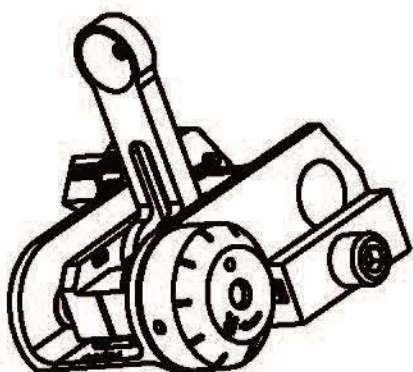
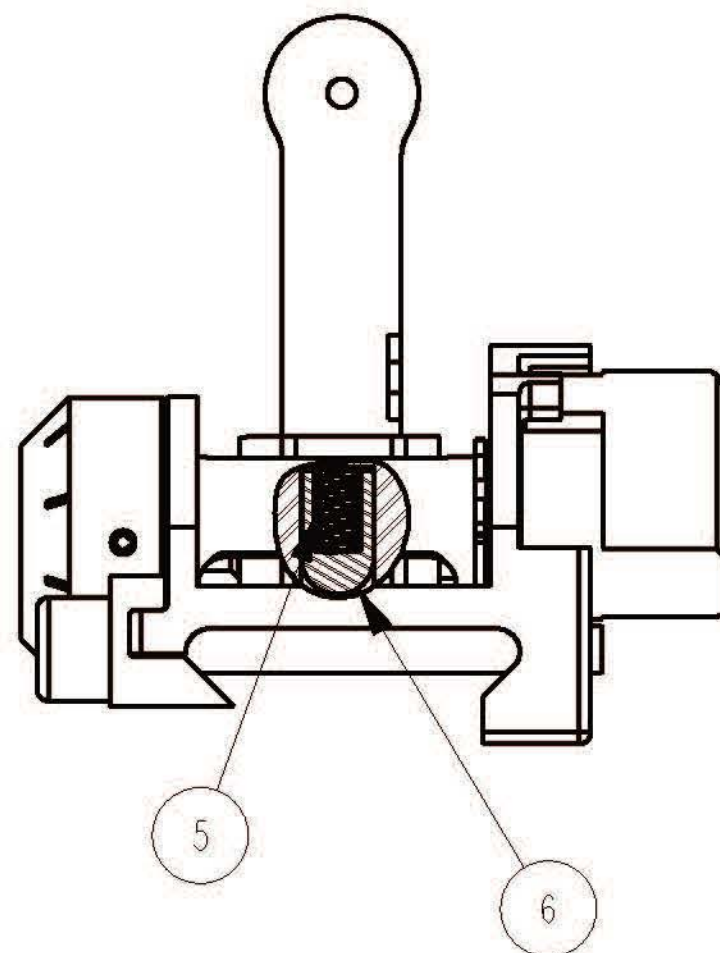
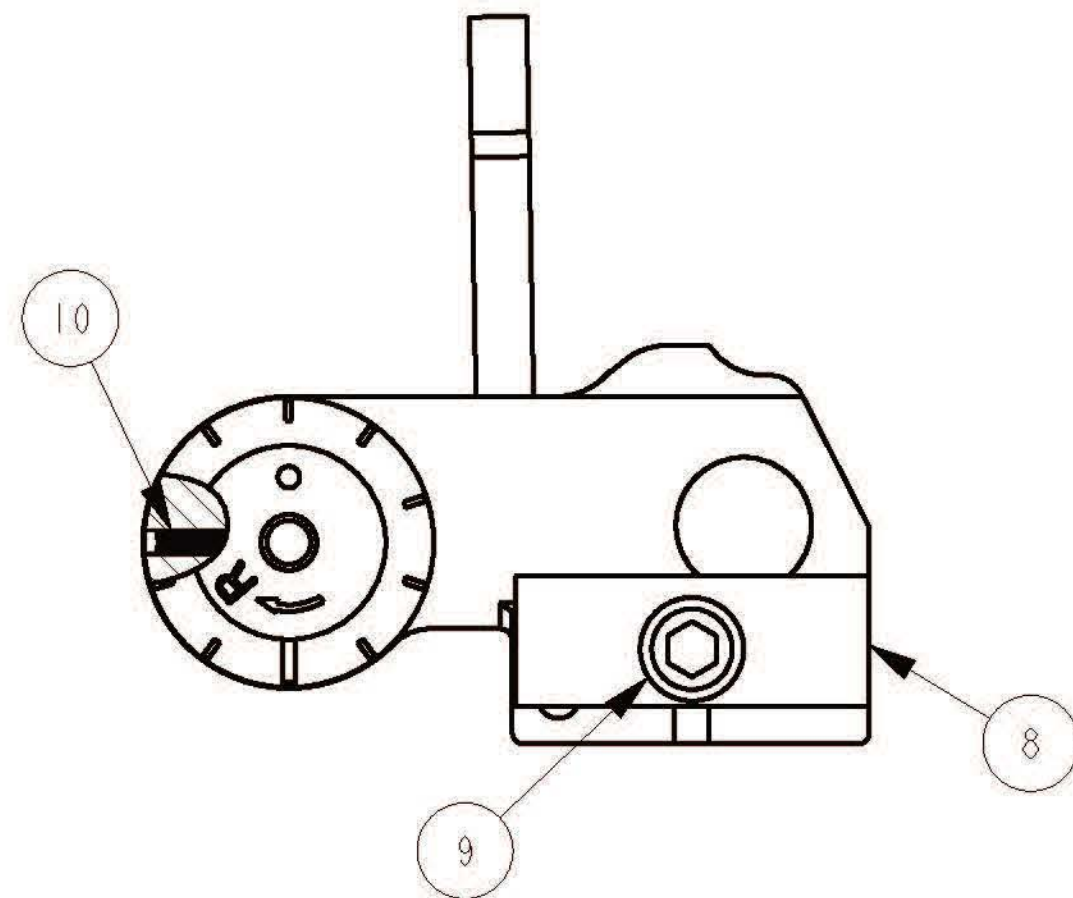
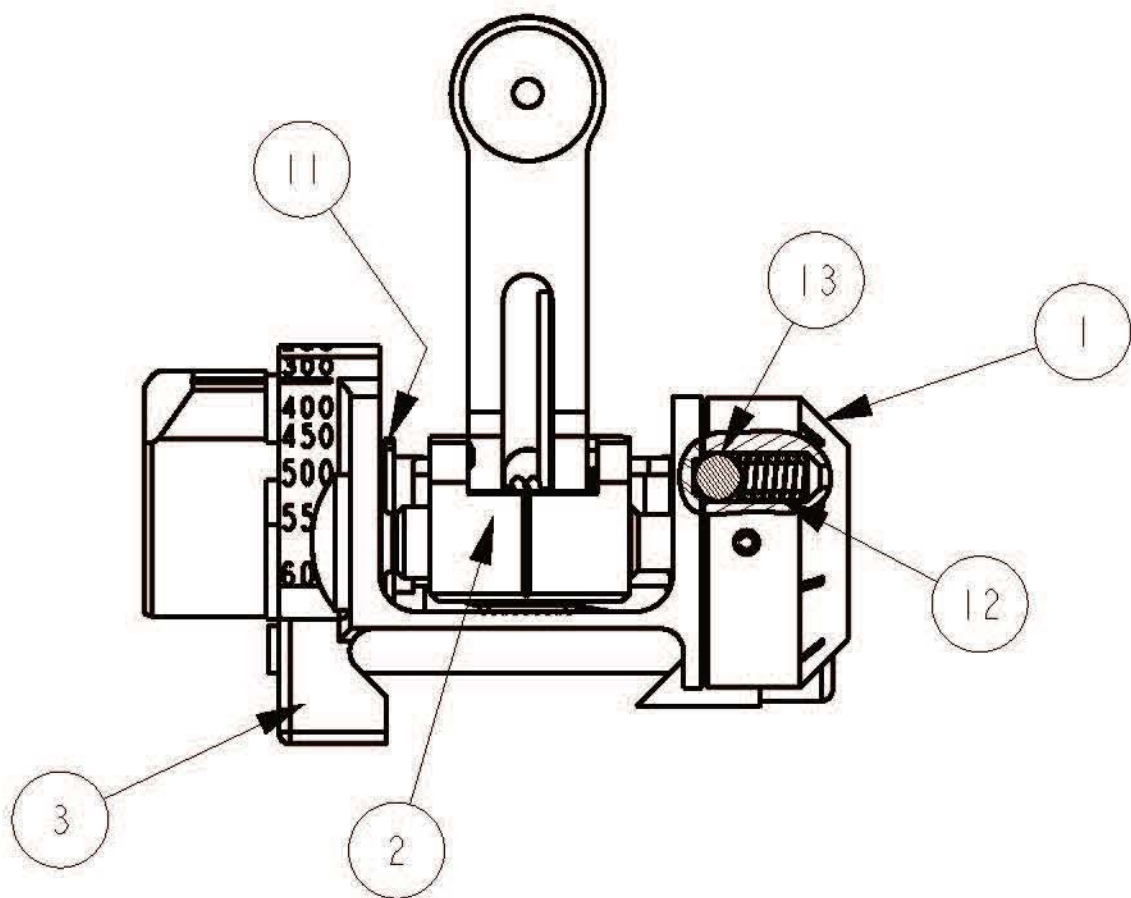
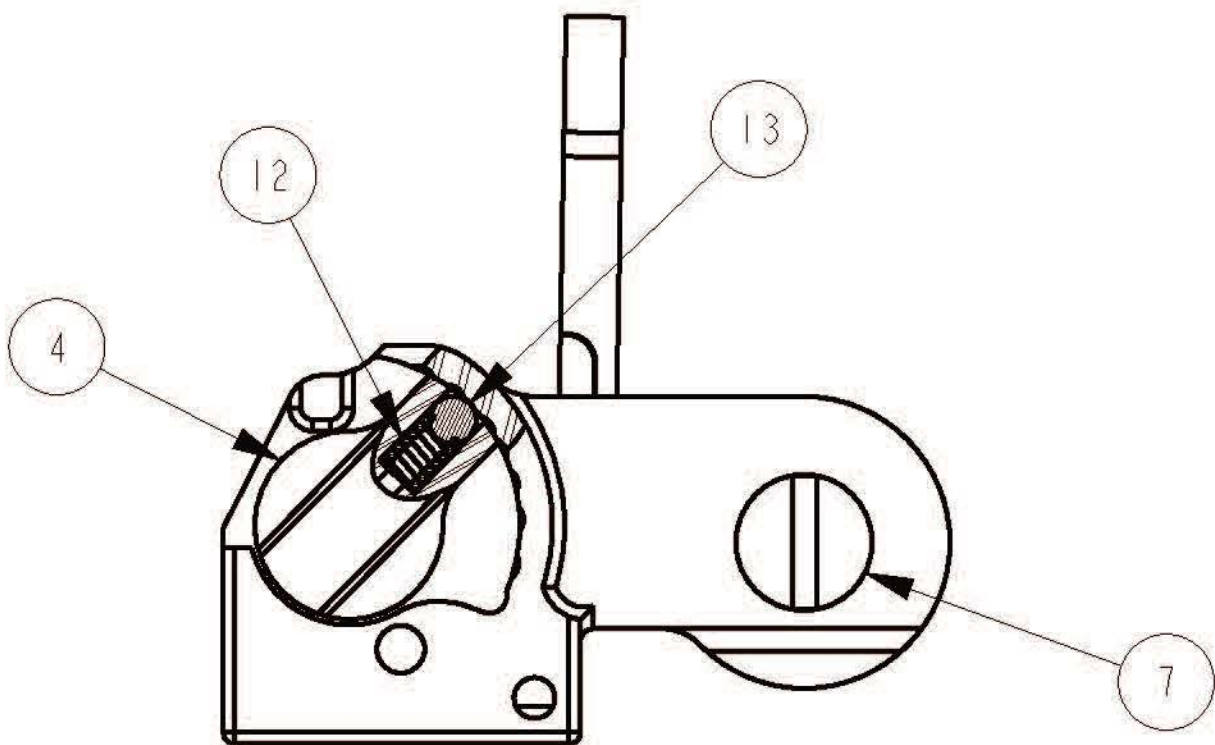


NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:  
A. ASME Y14.5M-1994  
B. MIL-W-13855  
C. MIL-STD-100
2. APPLY LUBRICATING OIL PER MIL-PRF-63460(6)  
TO ALL HELICAL SPRINGS, BEARING BALLS, AND  
CAM-BEARING SURFACES.
3. -
4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING NUMBER 12993884 APPLY.



REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR LIS2085	2001-05-02	RLV
N/A	A	NOR L2S2118 / 2002-05-28	2002-06-28	HJS
-	B	NOR L04S3029 / 2004-06-22	2004-08-02	RLV
A	C	NOR L09S5075 / 2010-01-06	2010-01-13	BMG



ISOMETRIC VIEW  
SCALE 1:000

- 101

II V

PARTS MISSING OR IMPROPERLY ASSEMBLED
- 102

II V

THE WINDAGE KNOB IS HELD IN POSITION BY THE SPRING-LOADED  
DETENT AND IS CAPABLE OF MOVING THE APERTURE FROM THE  
EXTREME LEFT TO THE EXTREME RIGHT POSITION WITHOUT BINDING  
OR THE USE OF EXCESSIVE FORCE
- 103

II V

THE SIGHT CAM IS HELD IN POSITION BY THE SPRING-LOADED  
DETENT AND IS CAPABLE OF BEING ROTATED THROUGH ITS FULL  
RANGE OF TRAVEL WITHOUT BINDING OF THE USE OF EXCESSIVE  
FORCE
- 104

II V

THE FRAME ASSEMBLY MOVES FREELY UNDER SPRING ACTION WHEN  
THE SIGHT CAM IS ROTATED
- 202

II V

MISSING, DEFECTIVE, OR ILLEGIBLE MARKING
- 203

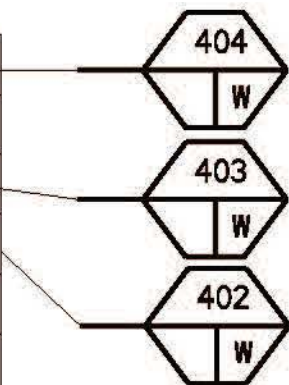
II V

MISSING OR DEFECTIVE PROTECTIVE FINISH
- 204

II V

WORKMANSHIP

13	2	96906	MS19060-4808	BALLS, BEARING, CORROSION RESISTANT STEEL	NOTE 2
12	2	19200	9349069	SPRING, INDEX	NOTE 2
11	1	96906	MS16624-3035	RING, RETAINING, EXTERNAL	
10	1	96906	MS16562-103	PIN, SPRING-TUBULAR, SLOTTED	PER NASM16562
9	1	19200	12996824	SCREW, RECOIL	
8	1	19200	12996823	BAR, LOCKING	
7	1	19200	12996822	SCREW, WINDAGE	
6	1	19200	12996821	PLUNGER	
5	1	19200	12996820	SPRING, COMPRESSION	NOTE 2
4	1	19200	12996819	CAM, SIGHT	NOTE 2
3	1	19200	12996818	BASE, SIGHT	
2	1	19200	12996813	FRAME ASSEMBLY	
1	1	19200	9349077	KNOB, WINDAGE	
ITEM OR FIND NO.	QTY. REQ.	CODE IDENT.	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS



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PART NO. 12996812

DISTRIBUTION STATEMENT A.  
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PMIC			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NUMBER	DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
MECHANICAL PROPERTIES			TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±	CONTRACTOR	
YP		M4A1	THIRD ANGLE PROJECTION	DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 2000-11-12
TS	12973010	M4		CHECKER R. NICEWANNER	ENGINEER R. ALZAMORA
EL2	12972700	M16A4		ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG
RA	9390000	M16A3		DRAWING APPROVAL J. WINDHAM	2004-06-22
BH	NEXT ASSY	USED ON		DESIGN APPROVAL R. ELBE	2004-06-22
RH	APPLICATION		MATL ENGR	MODELED BY R. BROWN	
SIZE D	CAGE CODE 19200	DWG NO. 12996812	SCALE 2:000	UNIT WT. 0.220	SHEET 1 OF 1



NOTES

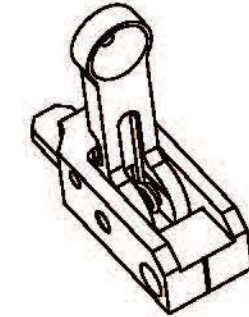
1. APPLICABLE SPECIFICATIONS AND STANDARDS:

- A. ASME Y14.100.
- B. ASME Y14.5M-1994.
- C. MIL-W-13855.

2. APPLY PRIMER AND RETAINING ADHESIVE TO INSIDE OF SMALLER (LEFT SIDE) HOLE OF FRAME 12996815 ONLY. ORIENT PIN MS16555-327 WITH TAPERED (NOT ROUNDED/CHAMFERED) END PRESSED INTO SMALLER HOLE OF FRAME 12996815. APPLY LUBRICATING OIL PER MIL-PRF-63460 TO SURFACE OF PIN MS16555-327.

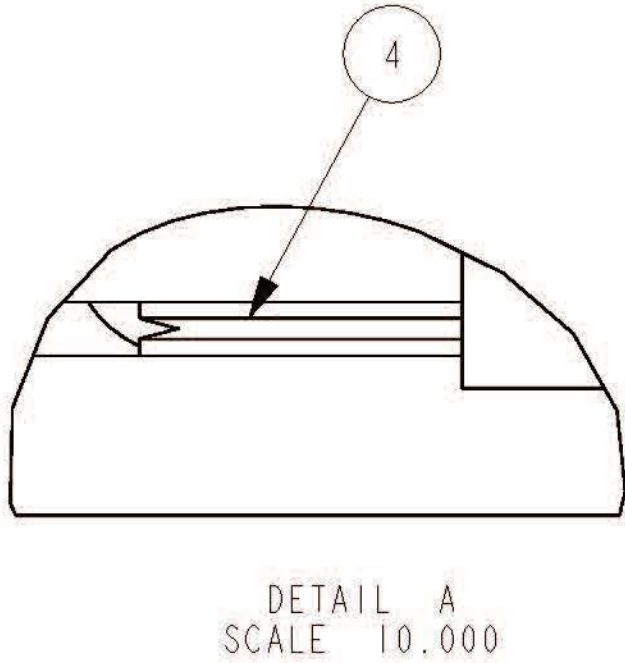
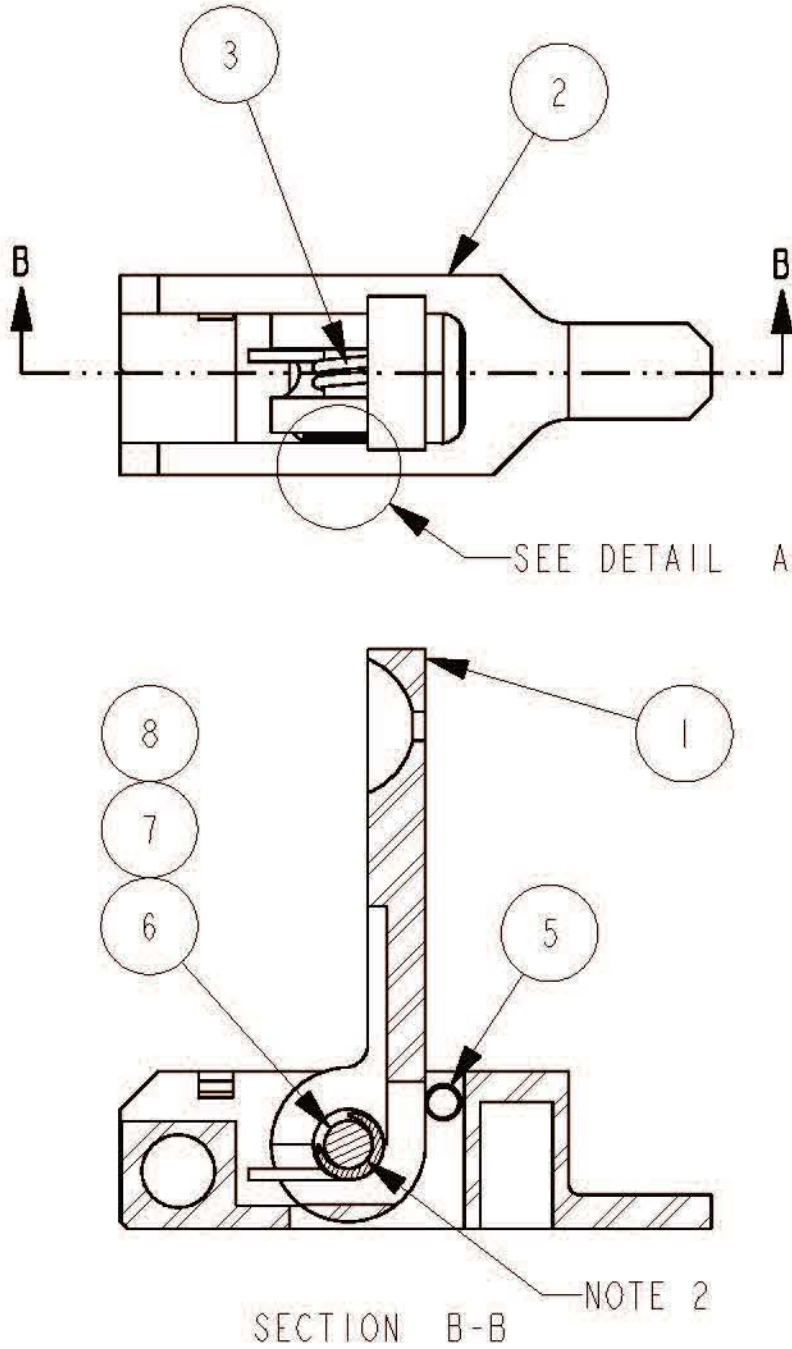
3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR LIS2085	2001-05-02	RLV
N/A	A	NOR L2S2118 / 2002-05-28	2002-06-28	HJS
-	B	NOR L04S3029 / 2004-06-22	2004-08-02	RLV
A	C	NOR L08S3096 / 2008-08-25	2008-09-04	BMG
B	D	NOR L09S3027 / 2009-04-17	2009-05-04	BMG
C	E	NOR L11S3031 / 2011-04-14	2011-04-21	RLV

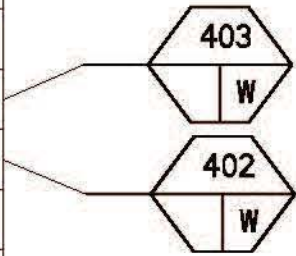


ISOMETRIC VIEW  
SCALE 1.000

101	III V	PARTS MISSING OR IMPROPERLY ASSEMBLED
102	III V	APERTURE PIVOTS FREELY BETWEEN HORIZONTAL AND VERTICAL POSITION AND IS RETAINED IN VERTICAL POSITION BY SPRING ACTION
103	III V	APERTURE IS RETAINED IN HORIZONTAL POSITION BY ENGAGEMENT OF DETENT ON FRAME IN SLOT ON APERTURE
104	III C	AFTER ASSEMBLY, PIN MS 16555-327 SHALL WITHSTAND AN AXIAL REMOVAL FORCE OF 75 LB MIN FOR AT LEAST 3 SECONDS WITHOUT DETECTABLE MOVEMENT
201	II V	MISSING OR DEFECTIVE PROTECTIVE FINISH
202	II V	WORKMANSHIP



ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS
8	AR	1Y2S6	N/A	PRIMER N	PER ASTM D 5363
7	AR	1Y2S6	AN0411	RETAINING ADHESIVE	PER ASTM D 5363
6	I	96906	MS16555-327	PIN, STRAIGHT, HEADLESS (DOWEL)	PER NASM16555
5	I	96906	MS51923-106	PIN, SPRING-TUBULAR, COILED, STANDARD DUTY	PER NASM51923
4	2	19200	12996817	SPRING WASHER, BELLEVILLE	
3	I	19200	12996816	SPRING, TORSION	
2	I	19200	12996815	FRAME	
1	I	19200	12996814	APERTURE	



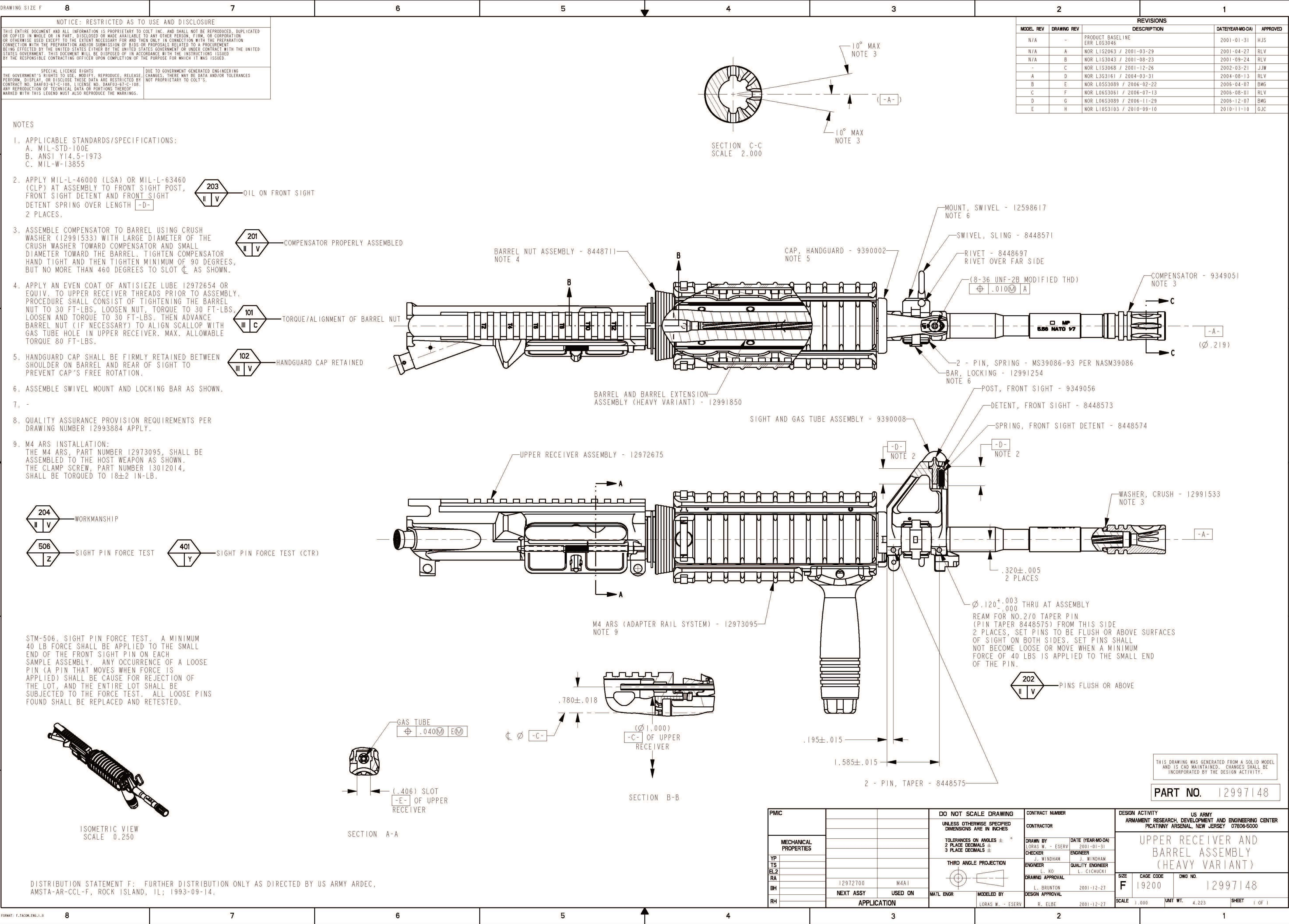
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PART NO. 12996813

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000		
MECHANICAL PROPERTIES		TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 2000-11-12	FRAME ASSEMBLY		
YP		THIRD ANGLE PROJECTION		CHECKER R. NICEWANNER	ENGINEER R. ALZAMORA			
TS				ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG			
EL2		M4A1		DRAWING APPROVAL		SIZE C	CAGE CODE 19200	DWG NO. 12996813
RA		M4		J. WINDHAM 2004-06-22				
BH		12996812 MI6A4		DESIGN APPROVAL		SCALE 2.000	UNIT WT. 0.0556	SHEET 1 OF 1
RH		NEXT ASSY USED ON		R. ELBE 2004-06-22				
		APPLICATION						

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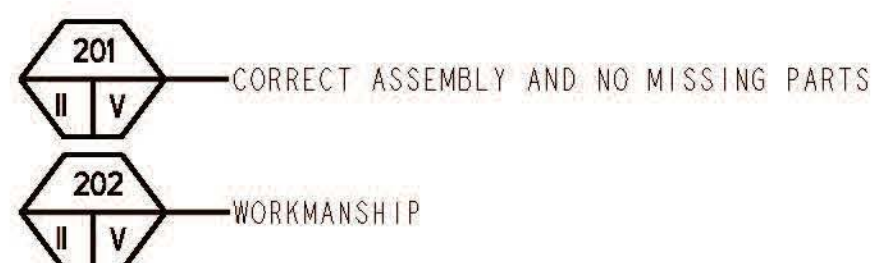
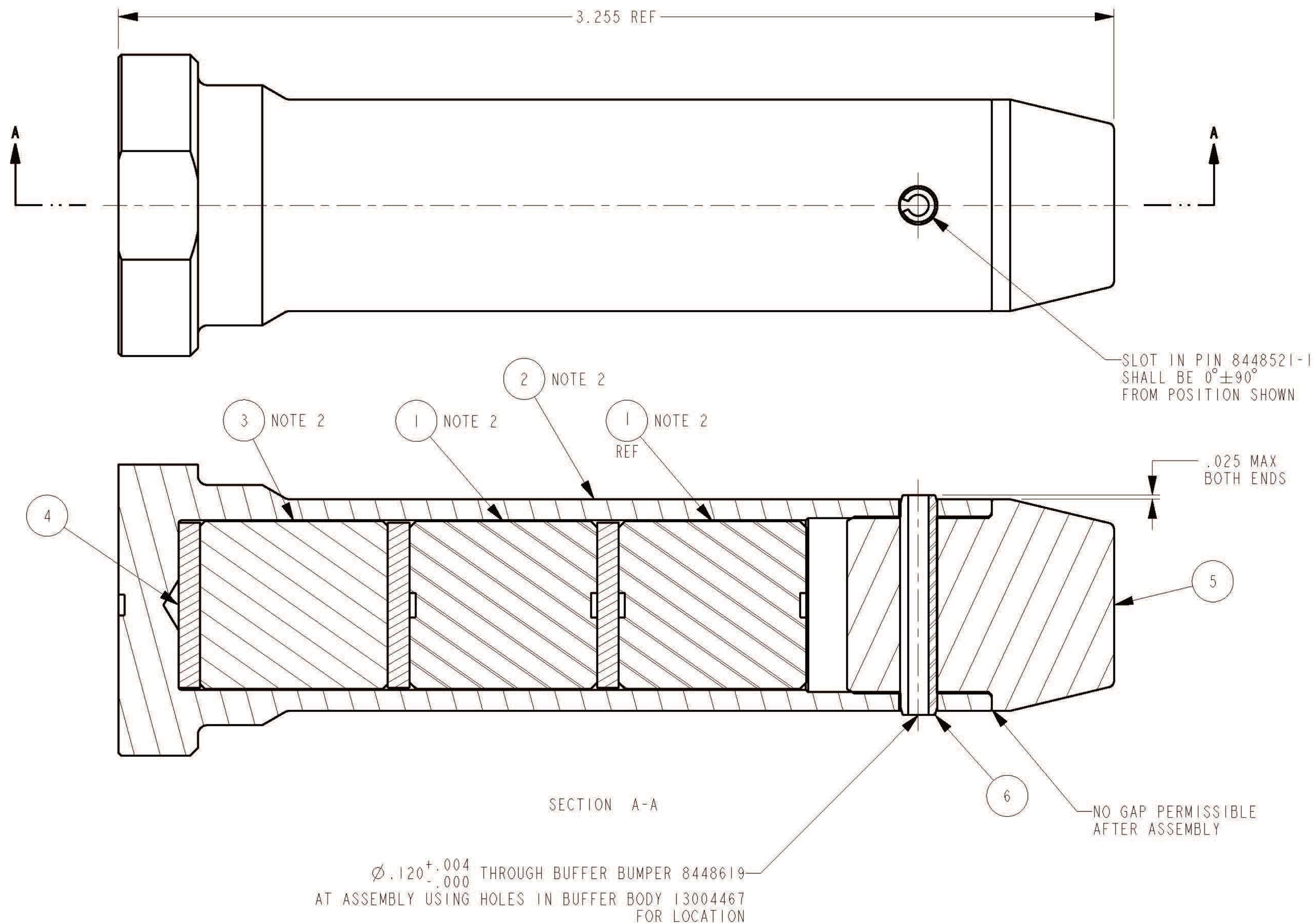
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## NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:
  - A. ANSI Y14.5M-1982.
  - B. MIL-W-13855.
2. PRIOR TO ASSEMBLY, APPLY VAPOR DEGREASING SOLVENT PER ASTM D 4080 TO ITEMS NOTED.
3. PRIOR TO ASSEMBLY, INTERNAL COMPONENTS AND INTERIOR OF BUFFER BODY SHALL BE FREE OF CHIPS AND/OR FOREIGN MATERIAL.
4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 2.000


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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	PRODUCT BASELINE REPLACES WITH CHANGE DRAWING 9390023 REV E ERR L2S3073	2003-03-12	RJC
A	A	NOR L09S3111 / 2009-09-10	2009-09-23	GJC

6	1	19204	8448521-1	PIN, SPRING	
5	1	19204	8448619	BUMPER, BUFFER	
4	3	19204	8448618	DISC, BUFFER	
3	1	19204	8448617	WEIGHT, BUFFER	
2	1	19200	13004467	BODY, BUFFER	
1	2	19200	12972656	WEIGHT, BUFFER, TUNGSTEN	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

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PART NO. 13004468

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY J. WINDHAM		DATE(YEAR-MO-DA) 2003-01-21		BUFFER ASSEMBLY		
YP				THIRD ANGLE PROJECTION 		CHECKER J. WINDHAM		ENGINEER J. WINDHAM				
TS						ENGINEER L. KO		QUALITY ENGINEER A. KONG				
EL2						DRAWING APPROVAL L. BRUNTON		2003-01-21				
RA			M4A1			DESIGN APPROVAL R. ELBE		2003-01-21		SIZE D	CAGE CODE 19200	DWG NO. 13004468
BH			9390011	M4								
		NEXT ASSY	USED ON		MATL ENGR	MODELED BY J. WINDHAM						
RH		APPLICATION										

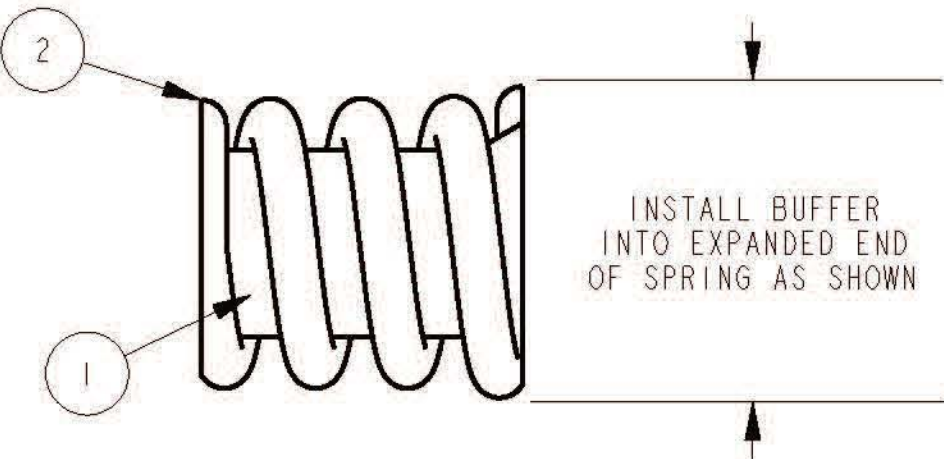
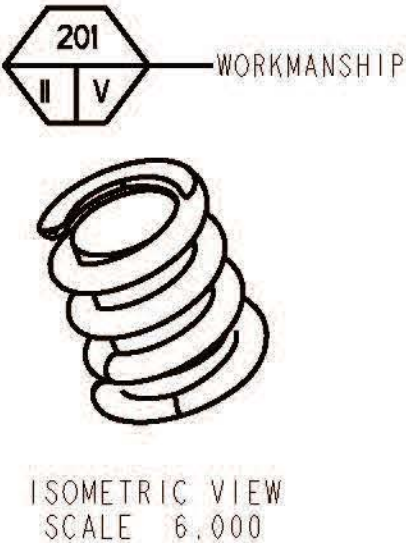


NOTES

1. MIL-W-13855 APPLIES.

2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	PRODUCT BASELINE ERR L2S3076	2003-03-18	RJC
A	A	NOR L07S3067 / 2007-07-27	2007-09-06	BMG



2	1	19200	12999901	SPRING, EXTRACTOR	
1	1	19200	12972693	BUFFER, EXTRACTOR	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

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			M4A1	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY					
			M4					ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER					
MECHANICAL PROPERTIES			M16A4	TOLERANCE ON ANGLES ± °		DRAWN BY		SPRING ASSY, EXTRACTOR					
			M16A3	2 PLACE DECIMALS ±		J. WINDHAM							
			M16A2	3 PLACE DECIMALS ±		D. COLLUM							
			M16A1			R. ALZAMORA							
YP				THIRD ANGLE PROJECTION		ENGINEER							
TS						J. WINDHAM							
EL2						QUALITY ENGINEER							
RA						A. KONG							
BH		13004787	M16			DRAWING APPROVAL		SIZE	CAGE CODE	DWG NO.			
RH		NEXT ASSY	USED ON			L. BRUNTON		B	19200	13004786			
APPLICATION						2003-01-21							
				MATL ENGR	MODELED BY	DESIGN APPROVAL							
					J. WINDHAM	R. ELBE		SCALE	UNIT WT	SHEET			
						2003-01-21		10.000	0.000230	1 OF 1			



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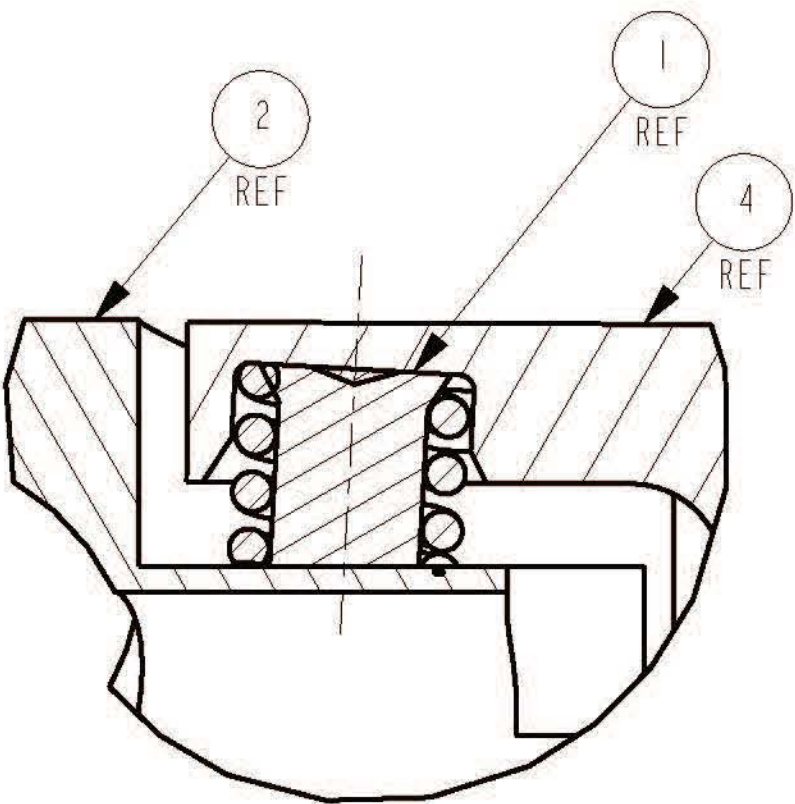
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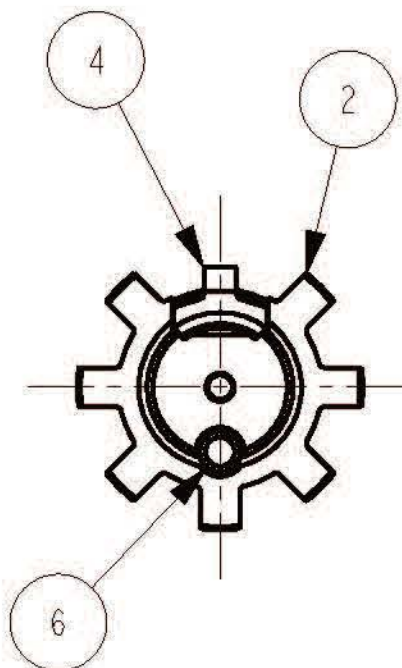
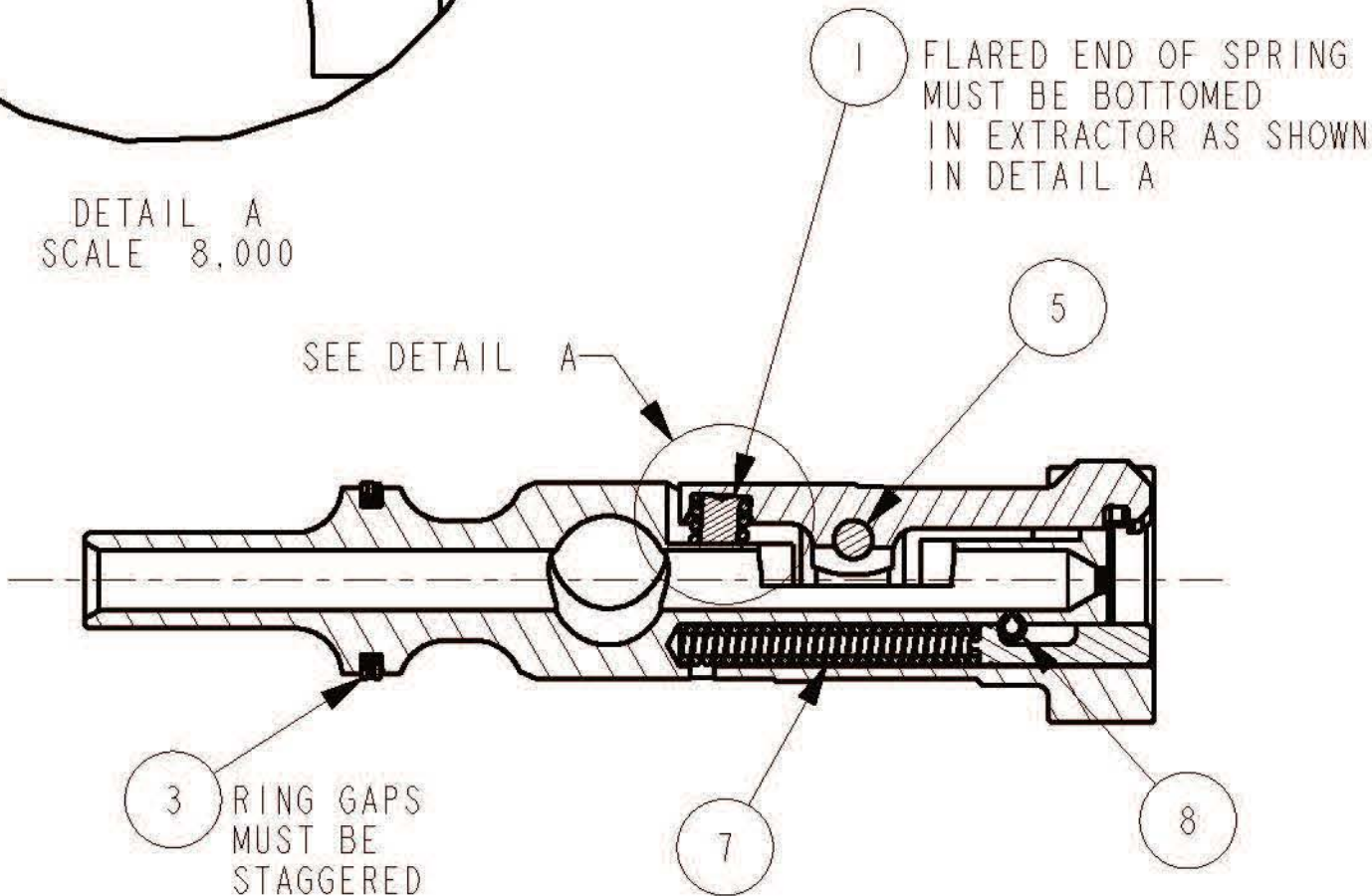
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NOTES

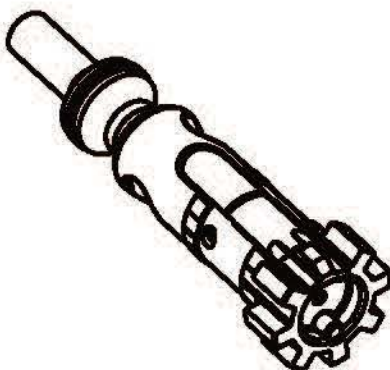
- 1. MIL-W-13855 APPLIES.
- 2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



DETAIL A  
SCALE 8.000



- 101 INCORRECT OR MISSING PROOF AND MPI MARK
- 102 EXTRACTOR AND EJECTOR MOVE FREELY AND RETURN UNDER SPRING PRESSURE
- 201 WORKMANSHIP



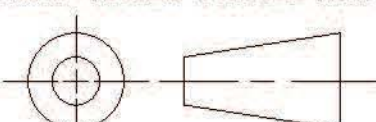
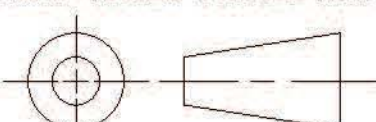
ISOMETRIC VIEW  
SCALE 1.000

ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS
8	1	96906	MS16562-98	PIN, SPRING-TUBULAR, SLOTTED	PER NASM16562
7	1	19204	8448516	SPRING, EJECTOR AND SAFETY DETENT	
6	1	19204	8448515	EJECTOR	
5	1	19204	8448513	PIN, EXTRACTOR	
4	1	19204	8448512	EXTRACTOR	
3	3	19204	8448511	RING, BOLT	
2	1	19204	8448510	BOLT	
1	1	19200	13004786	SPRING ASSY, EXTRACTOR	

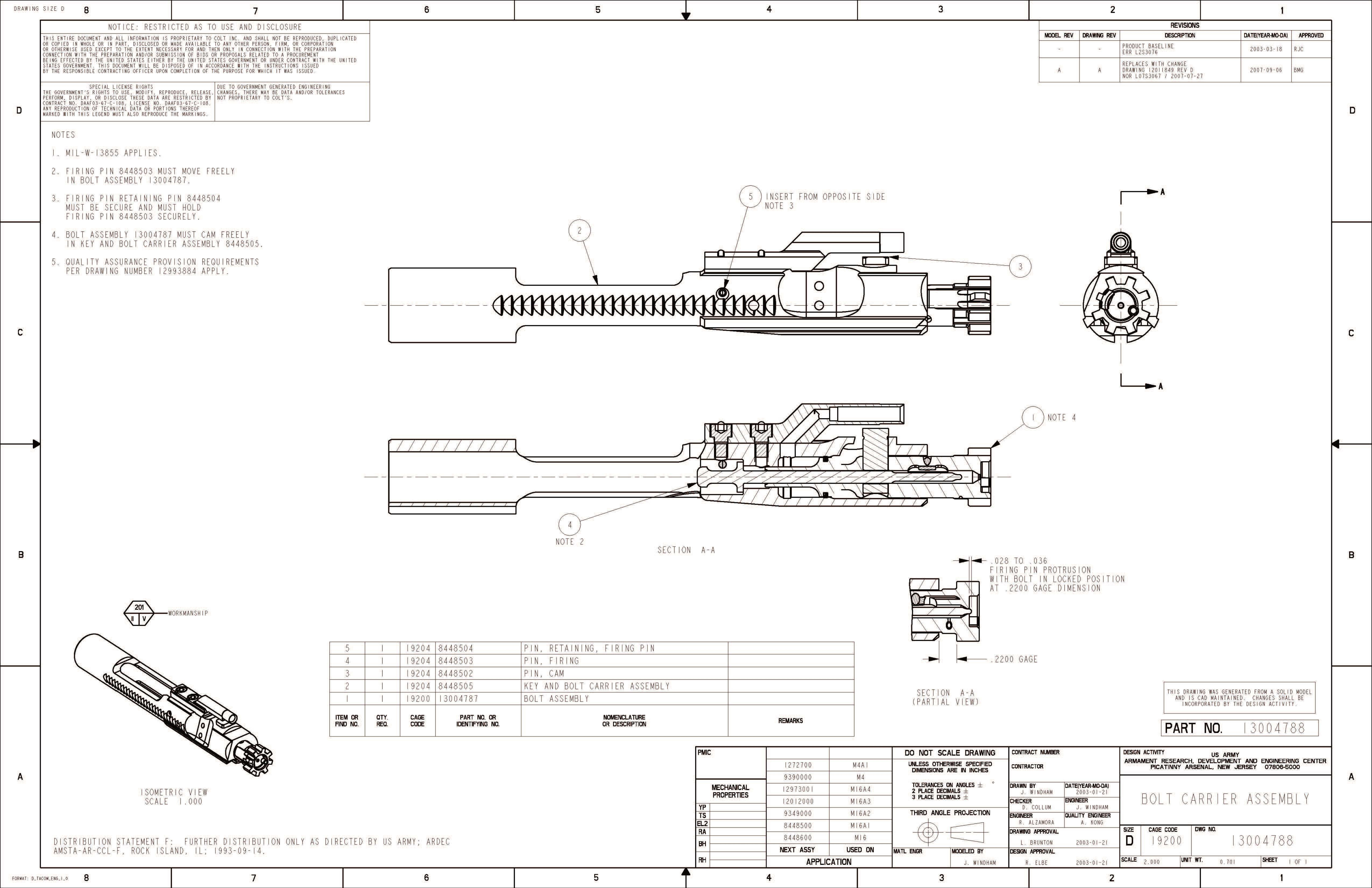
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			M4A1												
MECHANICAL PROPERTIES			M4	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		BOLT ASSEMBLY							
			M16A4												
			M16A3												
YP				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY J. WINDHAM						DATE(YEAR-MO-DA) 2003-01-21			
TS															
EL2															
RA			M16A2	THIRD ANGLE PROJECTION				CHECKER D. COLLUM		ENGINEER J. WINDHAM					
BH			M16A1												
		13004788	M16			ENGINEER R. ALZAMORA		QUALITY ENGINEER A. KONG							
		NEXT ASSY	USED ON	MATL ENGR		MODELED BY J. WINDHAM		DRAWING APPROVAL L. BRUNTON 2003-01-21		SIZE		CAGE CODE	DWG NO.		
										C		19200		13004787	
RH		APPLICATION						DESIGN APPROVAL R. ELBE 2003-01-21		SCALE	2.000	UNIT WT.	0.099	SHEET	1 OF 1







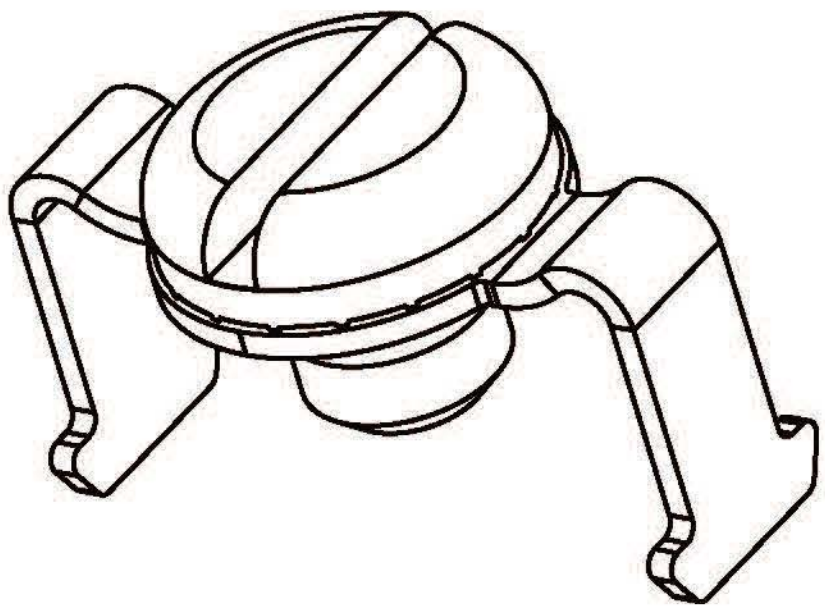
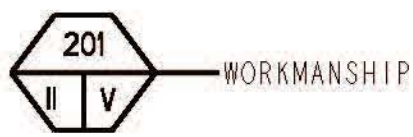
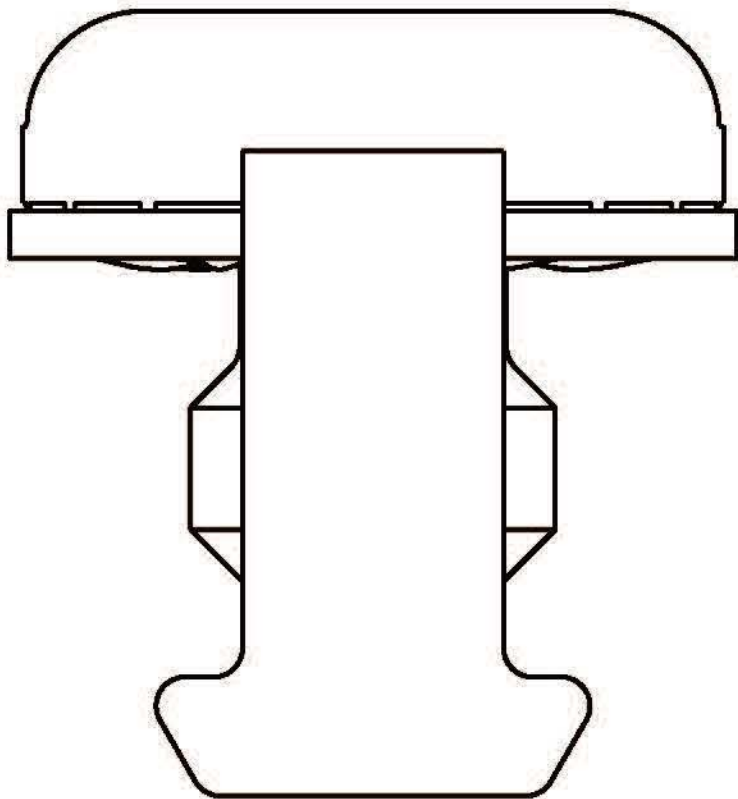
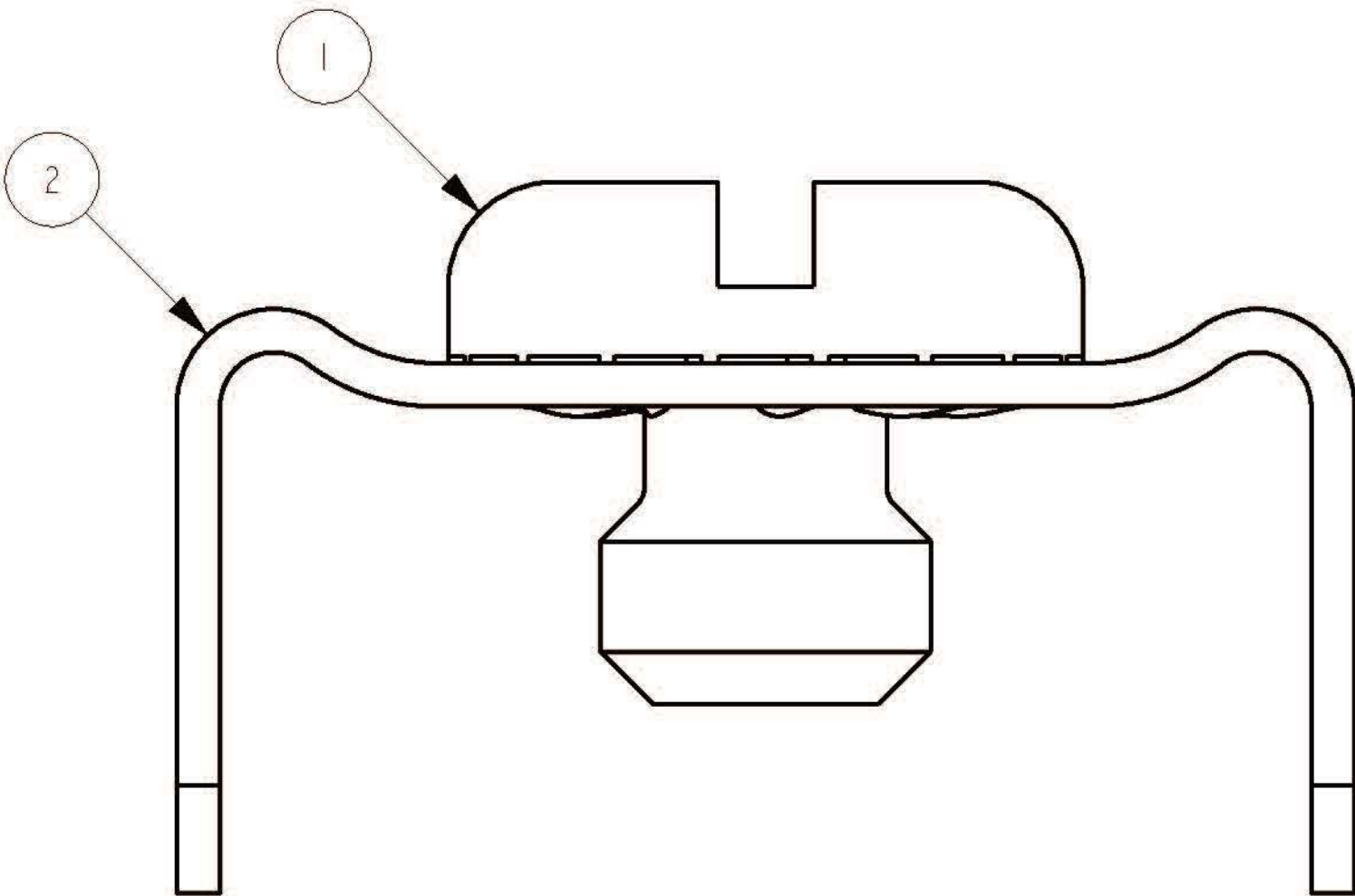
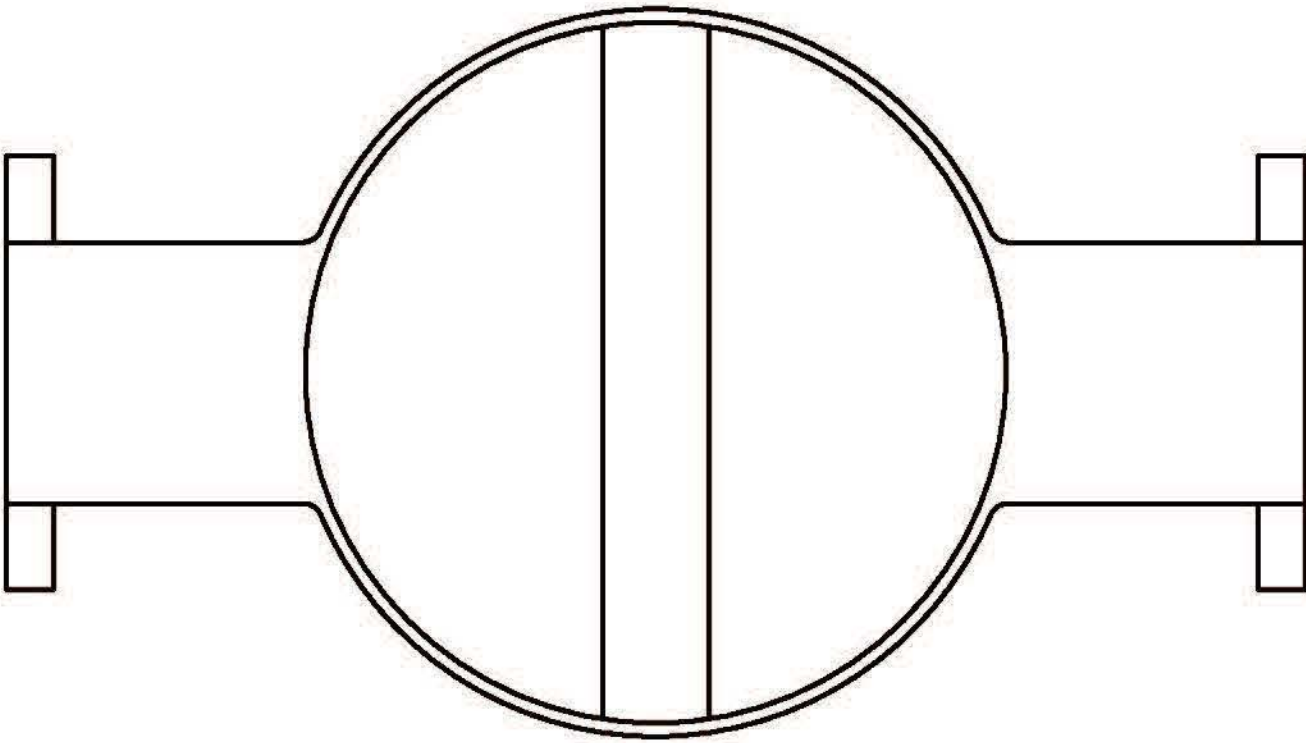
NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.

2. ASSEMBLE AS SHOWN.

3. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	PRODUCT BASELINE REPLACES WITH CHANGE DRAWING 12973028 REV B ERR LOSS3102	2006-04-10	RLV
A	A	NOR L07S3133 / 2008-01-10	2008-02-07	BMG



ISOMETRIC VIEW  
SCALE 6.000

2	1	19200	13012015	RETAINER, SCREW	
1	1	19200	13012014	SCREW, CLAMP	
ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS

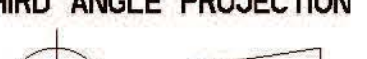
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MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 2005-12-28		CLAMP SCREW AND SCREW RETAINER ASSEMBLY			
YP				THIRD ANGLE PROJECTION		CHECKER J. WINDHAM		ENGINEER A. FOLTZ					
TS			M4A1			ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG					
EL2		12973096	M4			DRAWING APPROVAL J. WINDHAM		2006-01-24		SIZE D	CAGE CODE 19200	DWG NO. 13011435	
RA		12973021	M16A4			DESIGN APPROVAL T. KARCHER		2006-01-24		SCALE 10.000	UNIT WT. 0.005178	SHEET 1 OF 1	
BH		NEXT ASSY		USED ON		MATL ENGR		MODELED BY R. BROWN					
RH		APPLICATION											







8

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1

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D

C

B

A

STM-301: SPRING FORCE TEST

THE CONTRACTOR SHALL TEST THE SPRING FORCE OF EACH MAGAZINE ASSEMBLY, OF EACH SAMPLE SIZE USING A CALIBRATED STANDARD COMMERCIAL PUSH PULL GAGE (CHATILLON MODEL DPP-50), AND ADAPTER 8443560. EACH SPRING IN EACH MAGAZINE ASSEMBLY SHALL BE FULLY DEPRESSED AND RETURNED TO SEATED POSITION WITHOUT BINDING, A MINIMUM OF THREE TIMES. EACH ASSEMBLY SHALL THEN BE HELD FIRMLY, AND THE FOLLOWER DEPRESSED A MINIMUM OF 1/2 INCH AND THEN RELEASED TO 1/4 INCH AND THE SPRING FORCE READING TAKEN AND RECORDED AT 1/4 INCH DEPRESSION. FAILURE OF ANY ASSEMBLY TO REGISTER 3.0 LB ± 0.5 LB FORCE AT 1/4 INCH DEPRESSION SHALL BE CAUSE FOR REJECTION OF THAT INDIVIDUAL MAGAZINE. REJECTION OF MAGAZINES IN EXCESS OF THAT ALLOWED BY THE AQL SPECIFIED SHALL BE CAUSE FOR REJECTION OF THE LOT.

STM-302: FUNCTION TEST

MAXIMUM LOT SIZE FOR FUNCTION TESTING SHALL BE EITHER 25,000 MAGAZINES HAVING A SAMPLE SIZE OF 125 MAGAZINES OR ANOTHER LOT SIZE AND SAMPLE SIZE TO BE ESTABLISHED BETWEEN THE GOVERNMENT AND THE CONTRACTOR. NO MALFUNCTIONS ATTRIBUTABLE TO THE MAGAZINE SHALL BE ACCEPTABLE. (REFERENCE PARAGRAPH C.) ONE-HALF OF THE MAGAZINES IN THE SAMPLE SHALL BE FUNCTION-TESTED BY THE CONTRACTOR IN AN M4A1 CARBINE. IN THE EVENT OF AN UNEVEN SAMPLE SIZE, THE EXTRA MAGAZINE SHALL BE INCLUDED WITH THE REMAINING SAMPLE MAGAZINES, WHICH SHALL BE TESTED BY THE CONTRACTOR IN AN M16A2 RIFLE.

(A) THE M4A1 CARBINE SHALL BE HELD IN A CONTRACTOR-DESIGNED, GOVERNMENT-APPROVED TEST FIXTURE SIMULATING SHOULDER FIRING (REFERENCE FIXTURE DESIGN 11837945 FOR THE M16A1 RIFLE). EACH MAGAZINE SHALL BE FULLY LOADED (30 ROUNDS). THE M4A1 CARBINE SHALL BE SET FOR AUTOMATIC FIRING. TWO BURSTS OF APPROXIMATELY THREE TO FIVE ROUNDS EACH SHALL BE FIRED AND THE REMAINING ROUNDS IN THE MAGAZINE SHALL BE FIRED IN ONE CONTINUOUS BURST.

(B) THE M16A2 RIFLE SHALL BE HELD IN A CONTRACTOR-DESIGNED, GOVERNMENT-APPROVED TEST FIXTURE SIMULATING SHOULDER FIRING (REFERENCE FIXTURE DESIGN 11837945 FOR THE M16A1 RIFLE). EACH MAGAZINE SHALL BE FULLY LOADED (30 ROUNDS). THE FIRING PROCEDURE IS AS FOLLOWS: THE BOLT SHALL BE LOCKED IN ITS REARWARD POSITION, THEN A FULLY LOADED MAGAZINE SHALL BE LOCKED INTO THE MAGAZINE WELL. THE BOLT RELEASE SHALL BE USED TO CLOSE THE BOLT. FAILURE OF THE CARTRIDGE TO BE STRIPPED FROM THE MAGAZINE, FAILURE OF THE CARTRIDGE TO BE FED INTO THE CHAMBER, OR FAILURE OF THE BOLT TO LOCK (WHICH WILL FURTHERMORE PERMIT THE WEAPON TO FIRE) IS CONSIDERED A MALFUNCTION. THE FORWARD ASSIST MAY NOT BE USED TO LOCK THE BOLT. THE M16A2 RIFLE SHALL BE SET FOR BURST FIRING. ALL ROUNDS IN THE MAGAZINE SHALL BE FIRED IN THREE-ROUND BURSTS.

(C) ANY MALFUNCTION EXCLUDING FAILURE TO FIRE (FROM A LOCKED BOLT), FAILURE TO EXTRACT, OR FAILURE TO EJECT, OR AS A RESULT OF A BROKEN WEAPON COMPONENT SHALL BE CAUSE FOR THE GOVERNMENT TO DEFER ACCEPTANCE PENDING ACCOMPLISHMENT OF THE FOLLOWING ACTIONS BY THE CONTRACTOR:

(1) DETERMINE AND RECORD THE CAUSE OF THE MALFUNCTION. THE CONTRACTOR SHALL REQUEST ASSISTANCE FROM THE GOVERNMENT, IF THE CAUSE CANNOT BE DETERMINED.

(2) EXAMINE AND CORRECT ALL MAGAZINES TO ENSURE THAT MATERIAL CONTAINING THE TYPES OF DEFECTS REVEALED DURING THE TEST IS PURGED FROM THE PRIME CONTRACTOR'S AND THE VENDOR'S INVENTORY AND IS NOT REPRESENTED TO THE GOVERNMENT FOR ACCEPTANCE.

(3) INSTITUTE NECESSARY CORRECTIVE ACTION IN MANUFACTURING PROCESSES AND ASSOCIATED QUALITY CONTROL PROCEDURES TO PRECLUDE RECURRENCE OF THE DEFECTS/MALFUNCTIONS.

(4) PROVIDE OBJECTIVE EVIDENCE TO THE GOVERNMENT THAT CORRECTIVE ACTIONS HAVE BEEN ACCOMPLISHED.

(5) THE FUNCTION TEST SHALL THEN BE REPEATED TO ASSURE ADEQUACY OF CORRECTIVE ACTION.

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PART NO. 13021312

DESIGN ACTIVITY

US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

MAGAZINE ASSY,  
30 ROUND

SIZE  
D

CAGE CODE  
19200

DWG NO.  
13021312

SCALE  
1:000

UNIT WT.  
0.243

SHEET  
2 OF 2

REVISIONS

MODEL REV

DRAWING REV

DESCRIPTION

DATE(YEAR-MO-DA)

APPROVED

PRODUCT BASELINE  
REPLACES WITH CHANGE  
DRAWING 8448670 REV R  
NOR L08S3021 / 2008-03-11

2008-03-18

BWG

A

A

NOR L08S3076 / 2008-07-15

2008-08-18

AMW

STM-303: FOLLOWER FUNCTION

MANUALLY EXAMINE FUNCTION OF FOLLOWER AND MAGAZINE SPRING. THEY SHALL BE FULL DEPRESSED AND RETURN TO SEATED POSITION WITHOUT BINDING (5.723 (CALC MIN) SPRING DEPRESSION).

STM 304: ASSEMBLY OF MAGAZINE SPRING.

EXAMINE FOR PROPER ASSEMBLY OF MAGAZINE SPRING. THE SECOND COIL SHALL SLANT DOWN TOWARD THE FRONT OF THE MAGAZINE. THE END OF THE SPRING SHALL BE ENGAGED IN THE HOLE OF THE FOLLOWER. EXAMINE FOLLOWER THRU MAGAZINE CATCH SLOT. THE BOLT CATCH ACTUATING SURFACE OF THE FOLLOWER SHALL NOT BE BROKEN OR INCOMPLETE.

FORMAT: D:\TACOM\ENG\1\_0

8

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1



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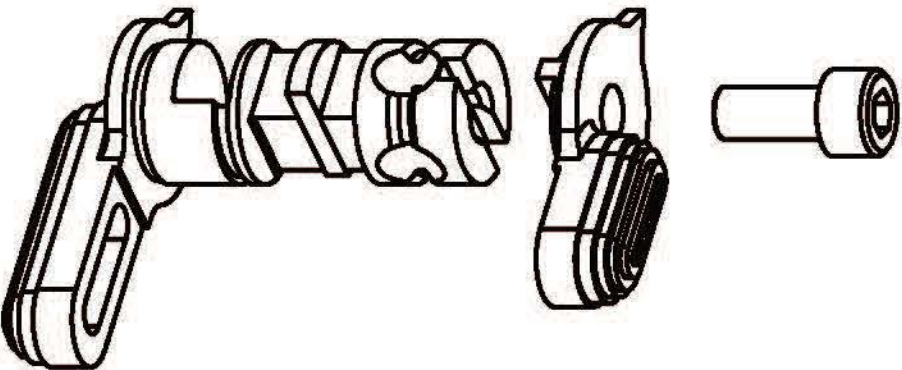
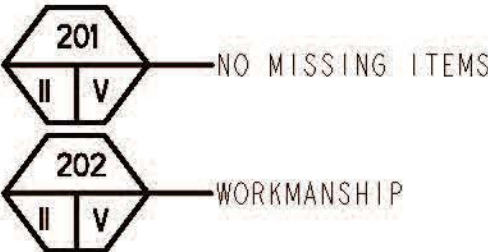
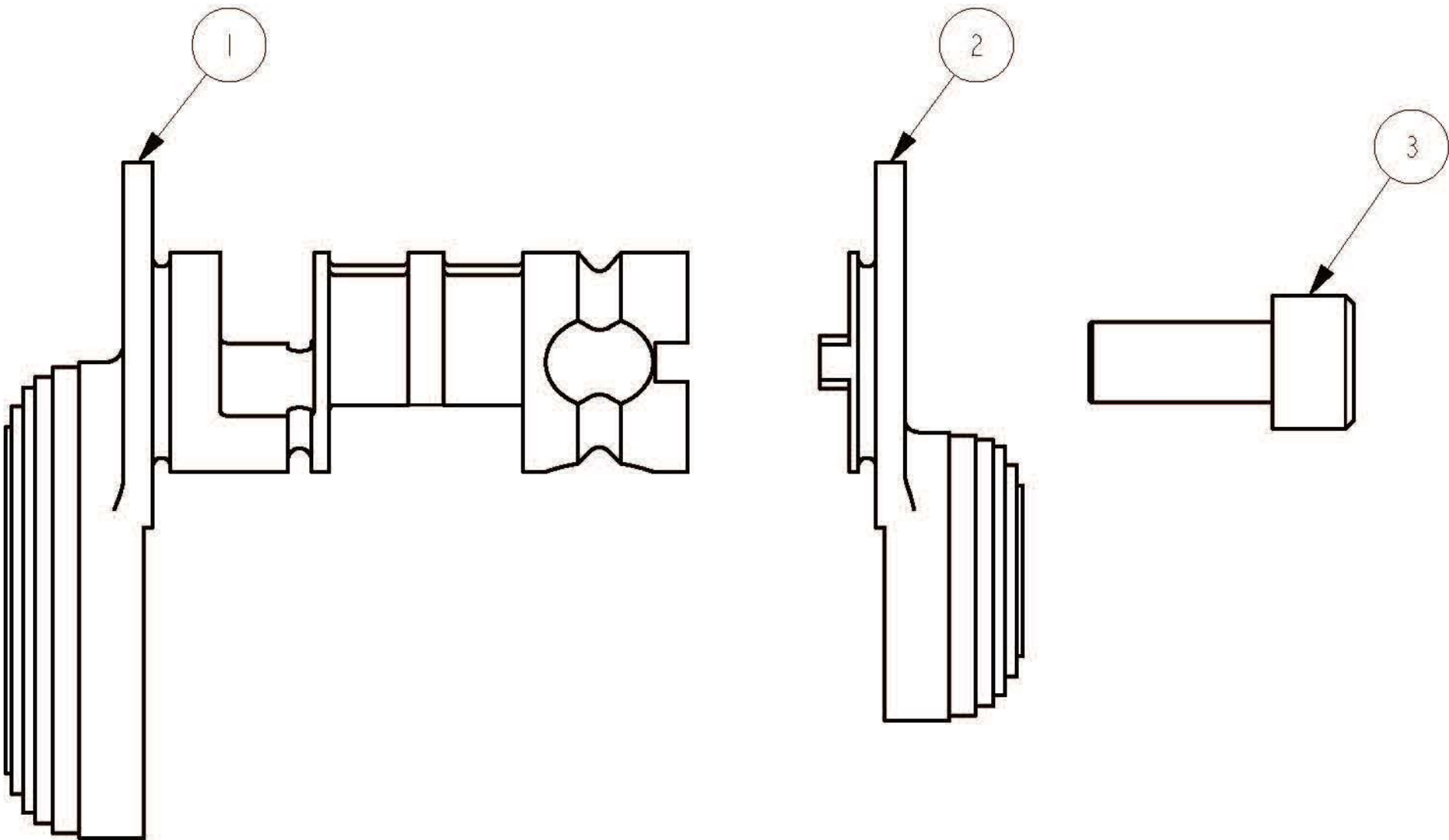
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	PRODUCT BASELINE REPLACES WITH CHANGE DRAWING 9381367 ERR L10S3023 / 2010-04-27	2010-05-12	BMG
A	A	NOR L10S3085 / 2010-07-29	2010-09-20	JTD
B	B	NOR L11S3012 / 2011-03-09	2011-04-21	AMW

NOTES

- MIL-W-13855 APPLIES.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



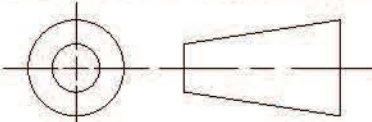
ISOMETRIC VIEW  
SCALE 2.000

ITEM OR FIND NO.	QTY. REQ.	CAGE CODE	PART NO. OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS
3	1	19200	13036743	SCREW, CAP, SOCKET HEAD	
2	1	19200	13027937	ANCILLARY LEVER	
1	1	19200	13027936	MAIN LEVER	

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 13027935

DISTRIBUTION STATEMENT F.  
REQUEST APPROVAL OF RDAR-EIS;  
2010-02-17.

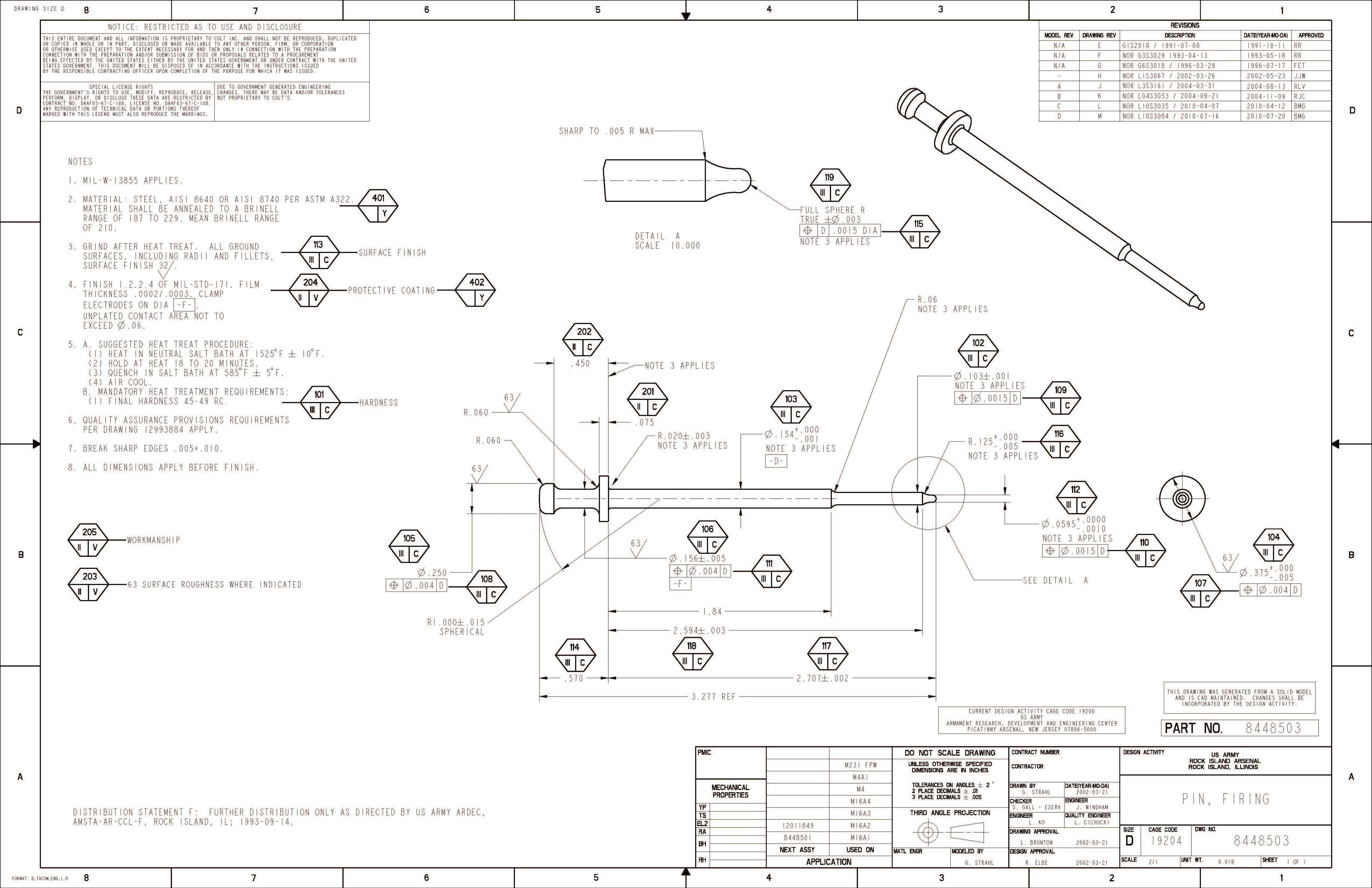
PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±  THIRD ANGLE PROJECTION 		CONTRACT NUMBER  CONTRACTOR  DRAWN BY H. LUKMAN DATE(YEAR-MO-DA) 2010-02-17  CHECKER D. COLLUM ENGINEER A. FOLTZ  ENGINEER R. BROWN QUALITY ENGINEER M. SEIZ  DRAWING APPROVAL J. WINDHAM 2010-04-27  DESIGN APPROVAL M. CROSSON 2010-04-27		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
								FIRE CONTROL SELECTOR ASSEMBLY			
MECHANICAL PROPERTIES											
		12972690	M4A1								
		9390011	M4								
		12598101	M16A4								
		12012001	M16A3								
YP		9349100	M16A2								
TS		8448578	M16A1								
EL2		8448604	M16								
RA		NEXT ASSY	USED ON	MATL ENGR	MODELED BY				SIZE C	CAGE CODE 19200	DWG NO. 13027935
BH		APPLICATION			H. LUKMAN				SCALE 4.000	UNIT WT. 0.0408	SHEET 1 OF 1
RH											



2

1 OF 1







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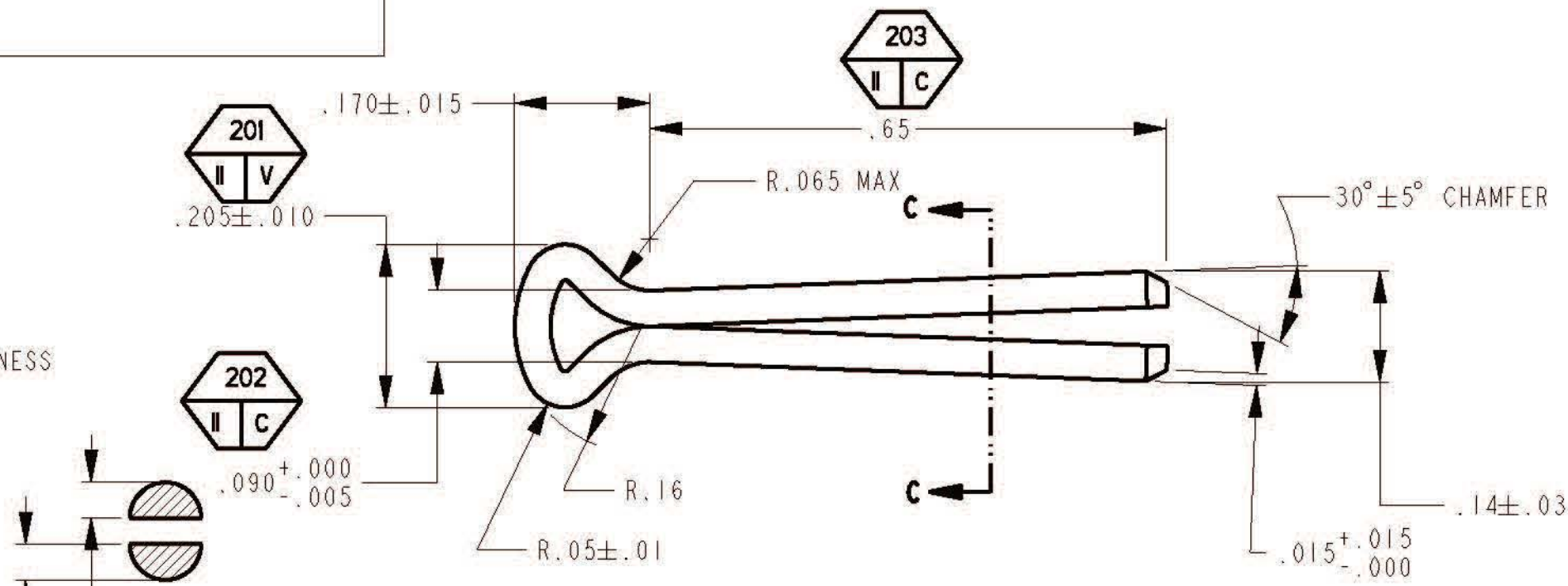
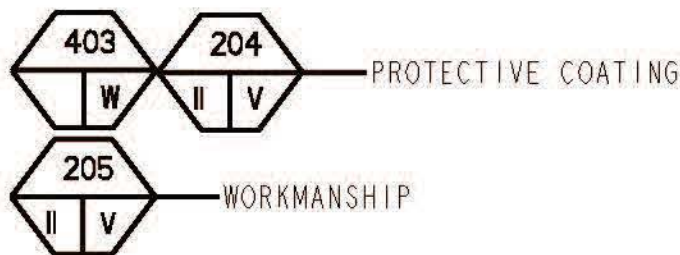
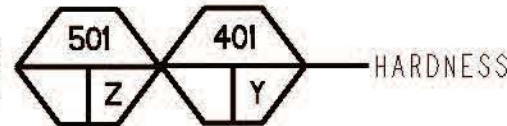
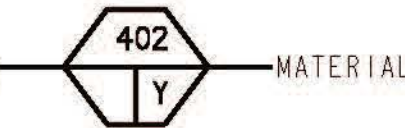
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	F	NOR G3S2019 / 1993-07-01	1993-09-01	GHS
-	G	NOR LIS3067 / 2002-03-26	2002-05-23	JJW
A	H	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	J	NOR L06S3020 / 2006-03-29	2006-05-02	BMG

B

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: WIRE, STEEL, CMPSN 1038, ASTM A510
- SURFACE FINISH 125/.
- HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS RH 15N- 80.5-83.5
- FINISH 5.3.1.2 OF MIL-STD-171.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



EQUAL WITHIN .005 (TRUE)  
SECTION C-C

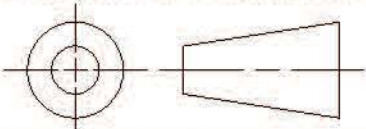
DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

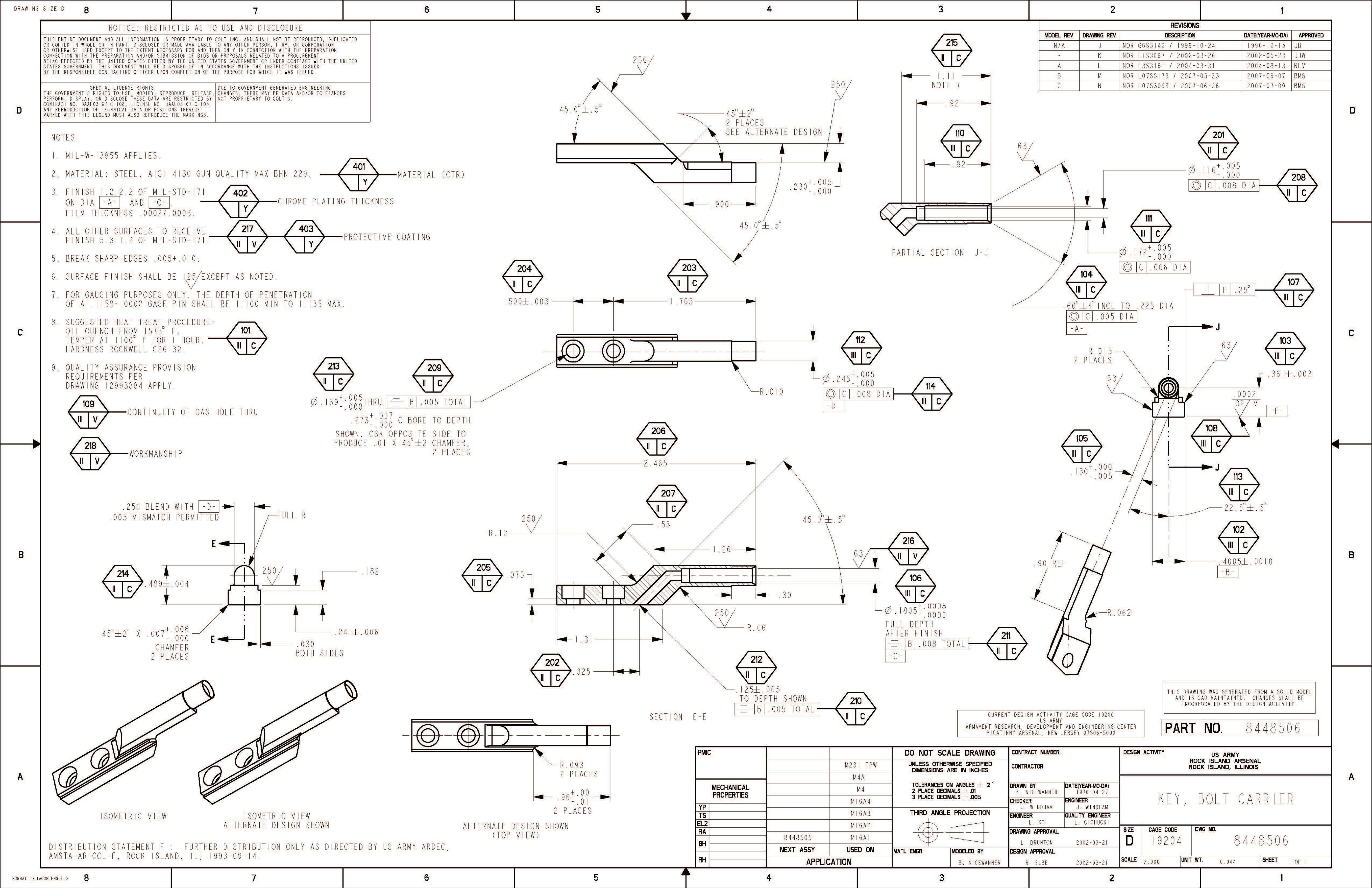
THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 8448504

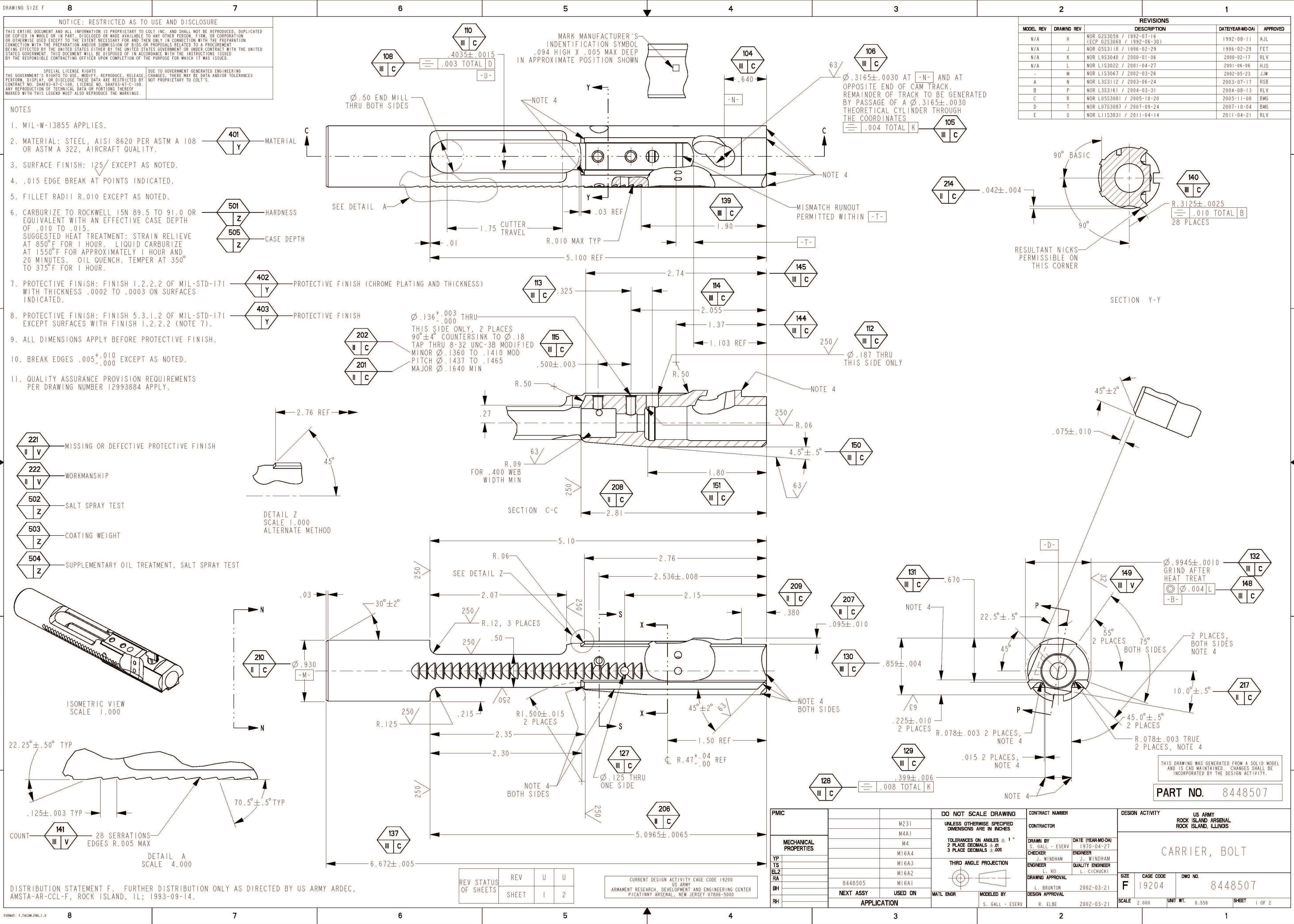
A

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
			M231 FPW	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES $\pm$ ° 2 PLACE DECIMALS $\pm$ .01 3 PLACE DECIMALS $\pm$ .005		DRAWN BY D. COLLUM		DATE (YEAR-MO-DA) 1970-04-27		PIN, RETAINING, FIRING PIN		
			M4			CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM				
YP			M16A4			ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI				
TS		D9327072	M16A3	THIRD ANGLE PROJECTION		DRAWING APPROVAL		SIZE				
EL2		12011849	M16A2			L. BRUNTON 2002-03-21		CAGE CODE				
RA		D8448501	M16A1			DESIGN APPROVAL		DWG NO.				
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY		B		19204	8448504	
RH		APPLICATION				D. COLLUM		R. ELBE 2002-03-21		SCALE	UNIT WT	SHEET
								5.000		0.002	1 OF 1	











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DUE TO GOVERNMENT GENERATED ENGINEERING  
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Technical drawing of a shaft with three steps. The drawing includes the following specifications:

- Top Step:**
  - Surface finish:  $32/\sqrt{R}$
  - Dimension:  $\varnothing .500 \pm .001$
  - Min DIA AFTER FINISH: .4984
  - Note: 7
  - Feature Control Frame:  $\text{III } C$
  - Material: 118
- Middle Step:**
  - Surface finish:  $63/\sqrt{R}$
  - Dimension:  $\varnothing .004$
  - Feature Control Frame:  $\text{III } C$
  - Material: 120
- Bottom Step:**
  - Surface finish:  $R.015$
  - Dimension:  $\varnothing .5315 \pm .0010$
  - Min DIA AFTER FINISH: .5299
  - Note: 7
  - Feature Control Frame:  $\text{III } C$
  - Material: 119
- Bottom Step (Bottom View):**
  - Feature Control Frame:  $\text{III } C$
  - Material: 147
  - Material: 119





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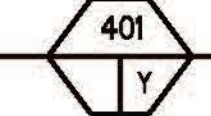
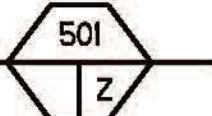

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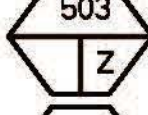
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

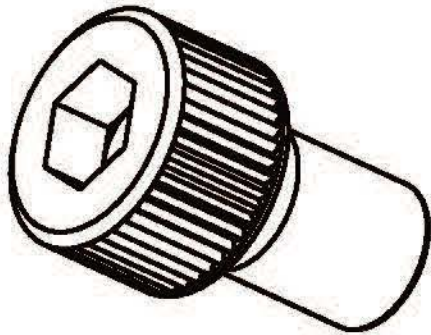
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	C	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	D	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	AJL
-	E	NOR LIS3067 / 2002-05-26	2002-05-23	JJW
A	F	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	G	NOR L07S3087 / 2007-09-24	2007-10-04	BMG

NOTES

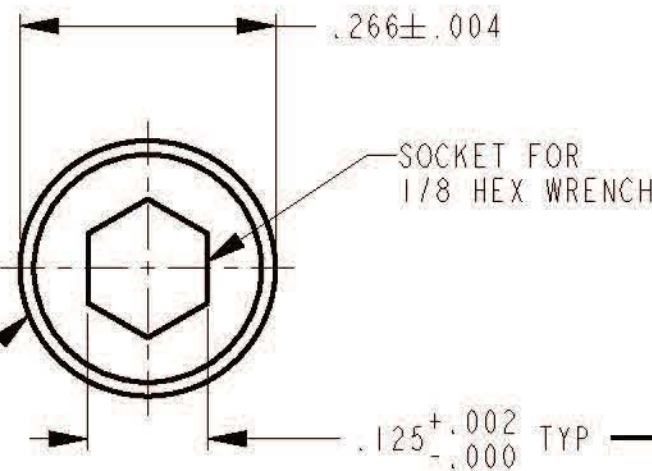
- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 4037 PER ASTM A 322.  MATERIAL
- SURFACE FINISH: 125/ EXCEPT AS NOTED.
- HEAT TREATMENT: QUENCH AND TEMPER. HARDNESS: ROCKWELL 15N 78.5 TO 83.  HARDNESS
- BREAK EDGES .005<sup>+</sup>.005<sub>-</sub>.000 EXCEPT AS NOTED.
- PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.  PROTECTIVE FINISH
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

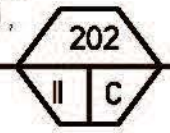
-  MISSING OR DEFECTIVE PROTECTIVE FINISH
-  WORKMANSHIP
-  SALT SPRAY TEST
-  COATING WEIGHT
-  SUPPLEMENTARY OIL TREATMENT; SALT SPRAY TEST

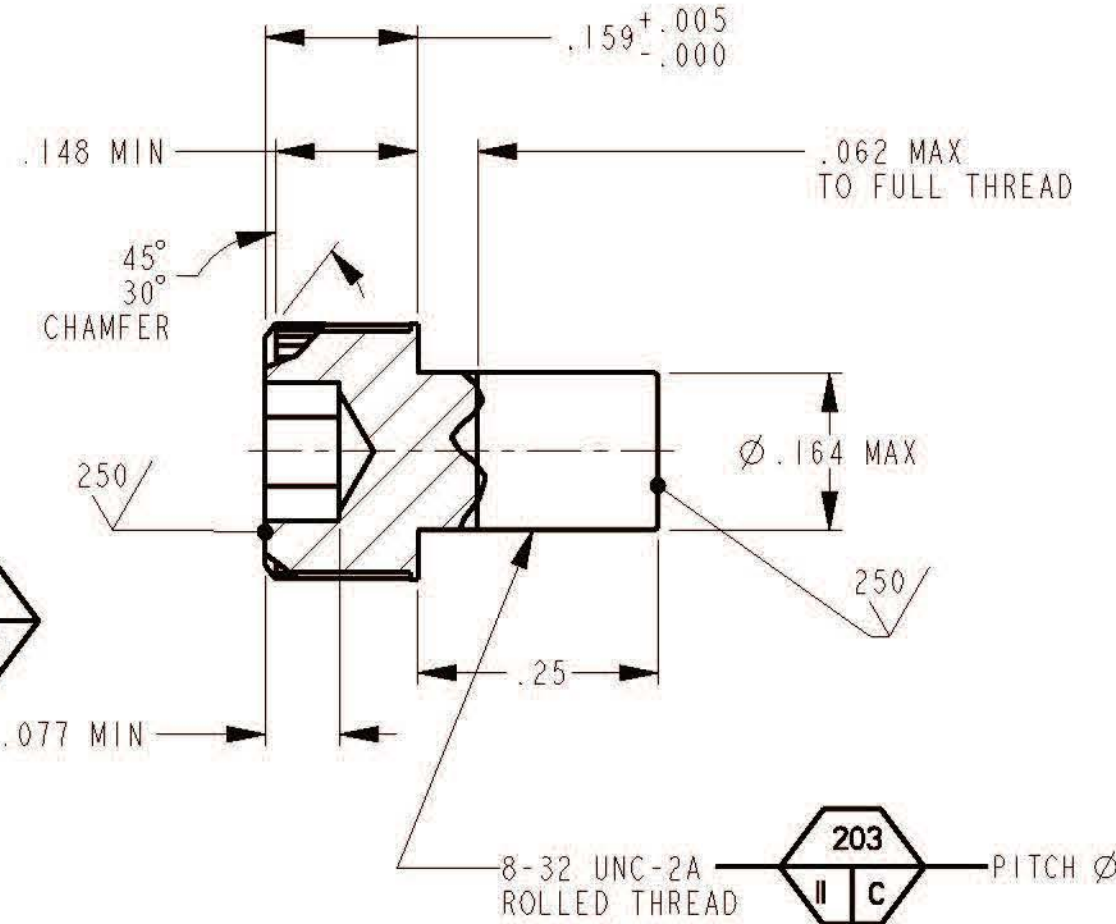


ISOMETRIC VIEW

DISTRIBUTION STATEMENT F. FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.





52 PITCH STRAIGHT KNURL PARALLEL WITH LONGITUDINAL AXIS ON THIS DIAMETER. KNURL MUST BE SHARP, WELL DEFINED, AND TO A DEPTH OF .0137<sup>+</sup>.0000<sub>-</sub>.0010.  KNURL DEPTH



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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448508

PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES $\pm 2^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		CONTRACT NUMBER  CONTRACTOR  DRAWN BY G. STRAHL DATE(YEAR-MO-DA) 1970-04-27  CHECKER J. WINDHAM ENGINEER J. WINDHAM  ENGINEER L. KO QUALITY ENGINEER L. CICHUCKI  DRAWING APPROVAL L. BRUNTON 2002-03-21  DESIGN APPROVAL R. ELBE 2002-03-21		DESIGN ACTIVITY  US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS   SCREW, CAP, HEX SOCKET HEAD			
		M231									
		M4A1									
MECHANICAL PROPERTIES		M4		THIRD ANGLE PROJECTION  		SIZE C CAGE CODE 19204 DWG NO. 8448508					
		M16A4									
		M16A3									
YP		M16A2				SCALE 5.000 UNIT WT. 0.00373 SHEET 1 OF 1					
TS		M16A1									
EL2		8448505									
RA		NEXT ASSY	USED ON	MATL ENGR	MODELED BY G. STRAHL						
BH		APPLICATION									
RH											















NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855 APPLIES.

2. MATERIAL: STEEL, CORROSION  
RESISTANT, PER AMS 5906 OR 5913,  
THICKNESS .016 ± .001.

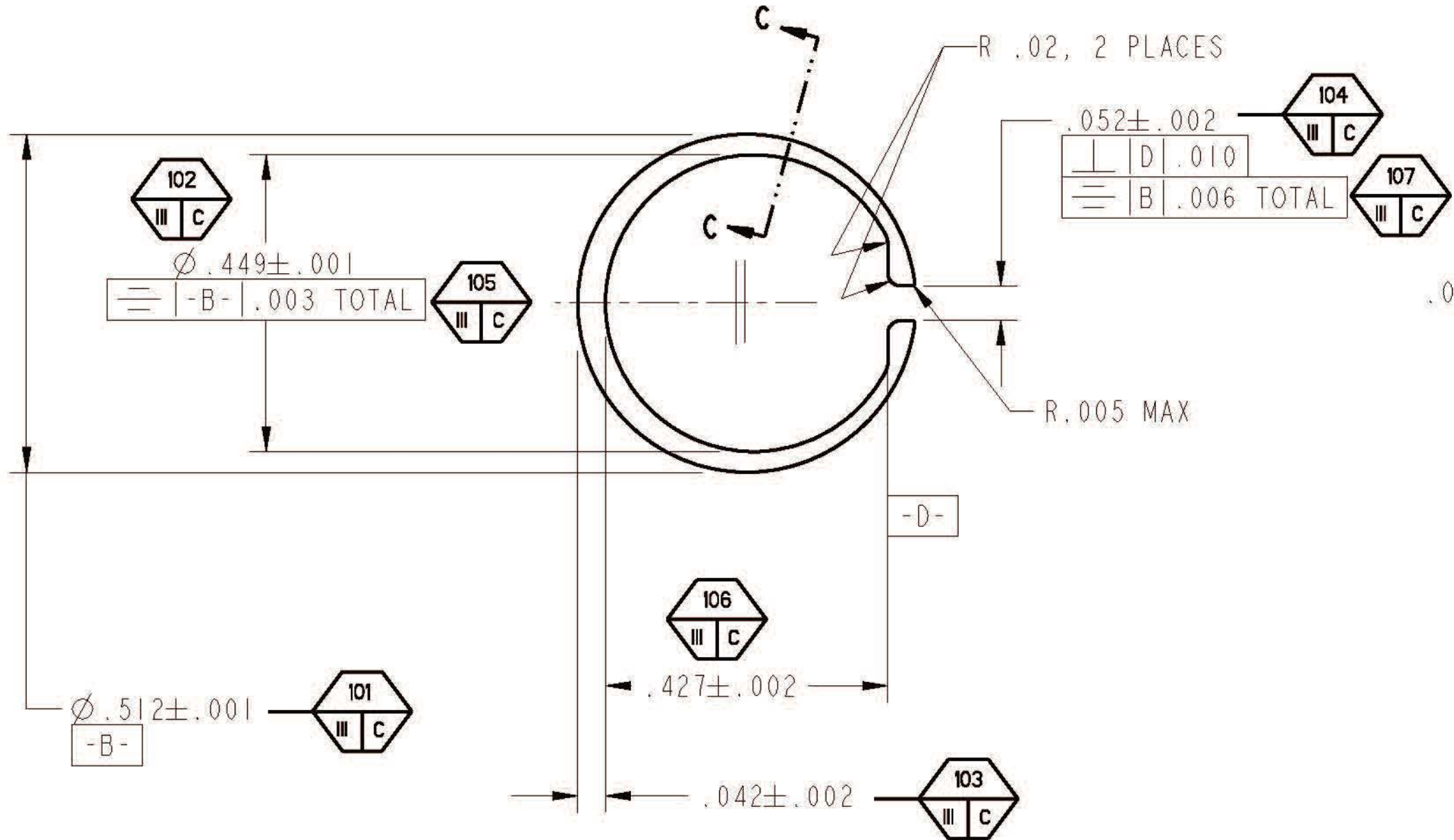
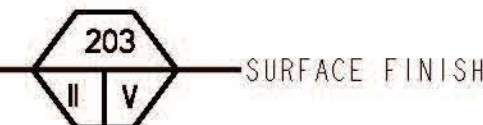
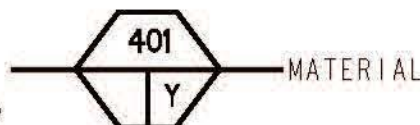
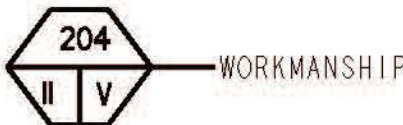
3. FINISH 5.4.1 OF MIL-STD-171.

4. EDGES TO BE SHARP TO .005 R MAX.

5. MAX DIE BREAK ON -B- TO BE  
50 PERCENT. FINISH ON SHEARED  
SURFACE FINISH TO BE 63

6. SURFACE FINISH 125 EXCEPT AS  
NOTED IN NOTE 5.

7. QUALITY ASSURANCE PROVISION  
REQUIREMENTS PER DRAWING  
12993884 APPLY.



R.005 MAX  
2 PLACES

R.010 MAX  
2 PLACES

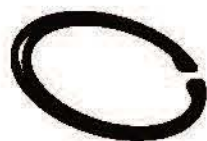
SECTION C-C  
SCALE 10.000  
TYPICAL

REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	F	NOR G5S3007 / 1995-03-03	1995-10-23	RLV
-	G	NOR LIS3067 / 2002-03-26	2002-05-23	JJW
A	H	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	J	NOR L05S3010 / 2005-03-08	2005-03-22	BMG

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PART NO. 8448511



ISO VIEW  
SCALE 2.000

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
		M231 FPW									
MECHANICAL PROPERTIES				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		RING, BOLT			
		M4A1									
		M4									
		M16A4									
YP				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ±		THIRD ANGLE PROJECTION		DRAWN BY		DATE(YEAR-MO-DA)	
TS		12972691						J. WINDHAM		1970-04-27	
EL2		9327073						CHECKER		ENGINEER	
RA		8448509						G. STRAHL		J. WINDHAM	
BH						ENGINEER		QUALITY ENGINEER			
RH								L. KO		L. CICHUCKI	
								DRAWING APPROVAL		SIZE	
								L. BRUNTON		C	
								2002-03-21		CAGE CODE	
										19204	
										DWG NO.	
										8448511	
										</	







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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1990-07-08	1991-10-11	RR
N/A	E	NOR G2S3025 / 1992-03-30	1992-04-27	TPT
-	F	NOR LIS3067 / 2002-03-26	2002-05-23	JJW
A	G	NOR L04S5165 / 2004-11-15	2005-01-04	RJC

NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: TOOL STEEL, TYPE S1 TO S7  
PER ASTM A 681.

401

Y

MATERIAL
3. SURFACE FINISH: 125/ EXCEPT AS NOTED.
4. HEAT TREAT PER ASTM A 681.  
HEAT TREATMENT METHODS ARE FOR GUIDANCE ONLY, EXCEPT THAT TEMPERING TIMES SHALL NOT BE REDUCED BELOW THOSE SPECIFIED.
5. AFTER TEMPERING, STEEL SHOT PEEN ALL OVER, S-70 SHOT, .005<sup>+</sup>.002<sup>-</sup> -A2 ALMEN, 150% APPROX COVERAGE.

402

Y

SHOT PEENING
6. HARDNESS: EQUIVALENT TO ROCKWELL 15N 88.5 TO 90.5.

501

Z

HARDNESS
7. CLEAN PER TT-C-490, METHOD III OR IV.

403

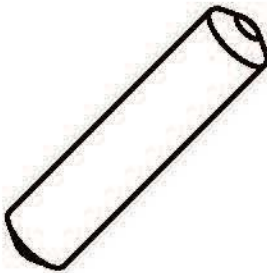
Y

CLEANING
8. PROTECTIVE FINISH: 5.3.1.2 OF MIL-STD-171.

404

Y

PROTECTIVE FINISH
9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



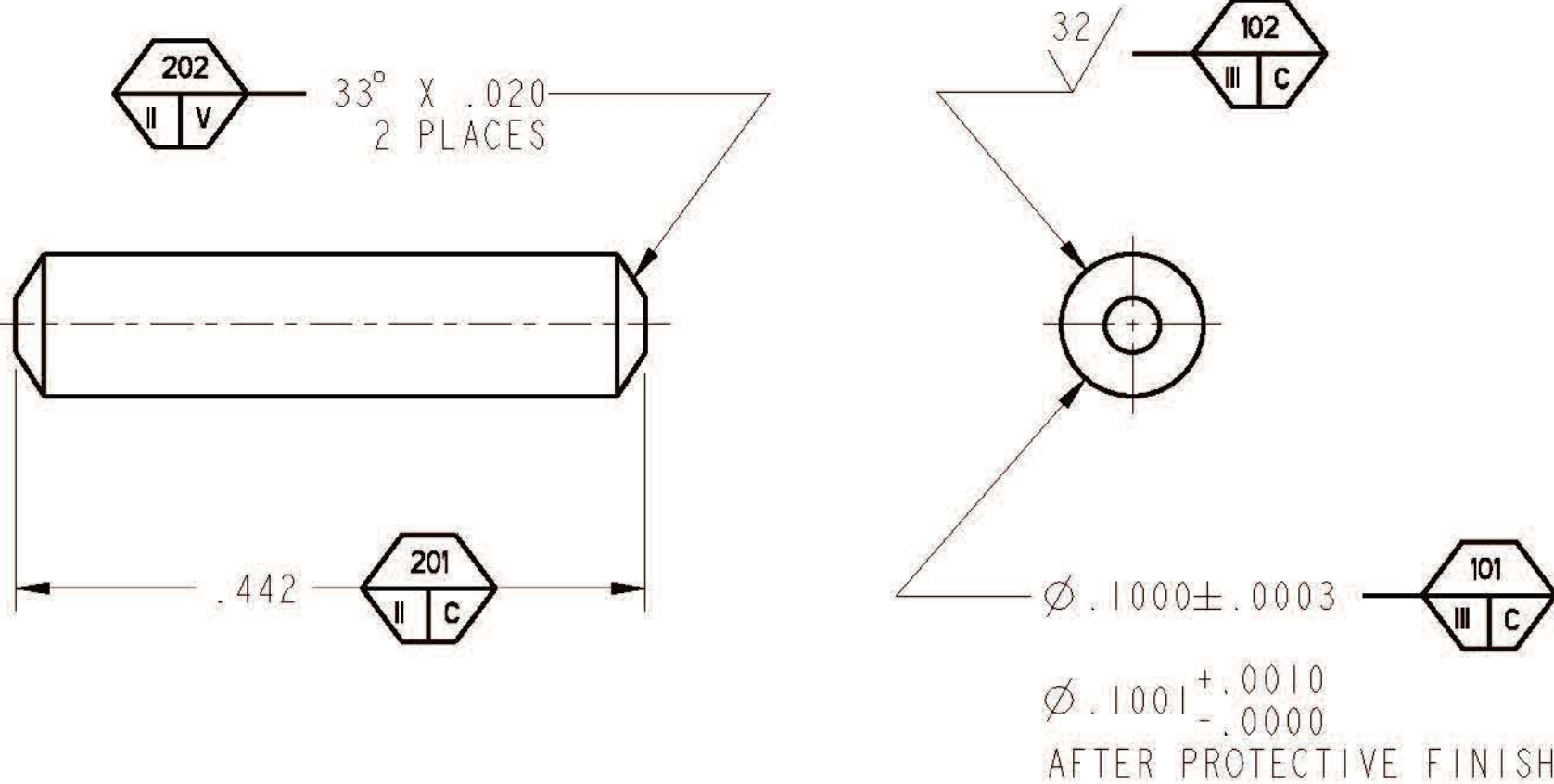
ISO VIEW  
SCALE 4.000



MISSING OR DEFECTIVE PROTECTIVE FINISH



WORKMANSHIP

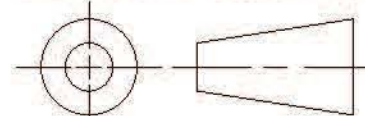
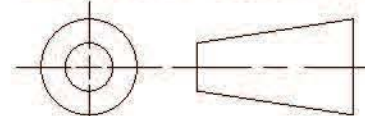


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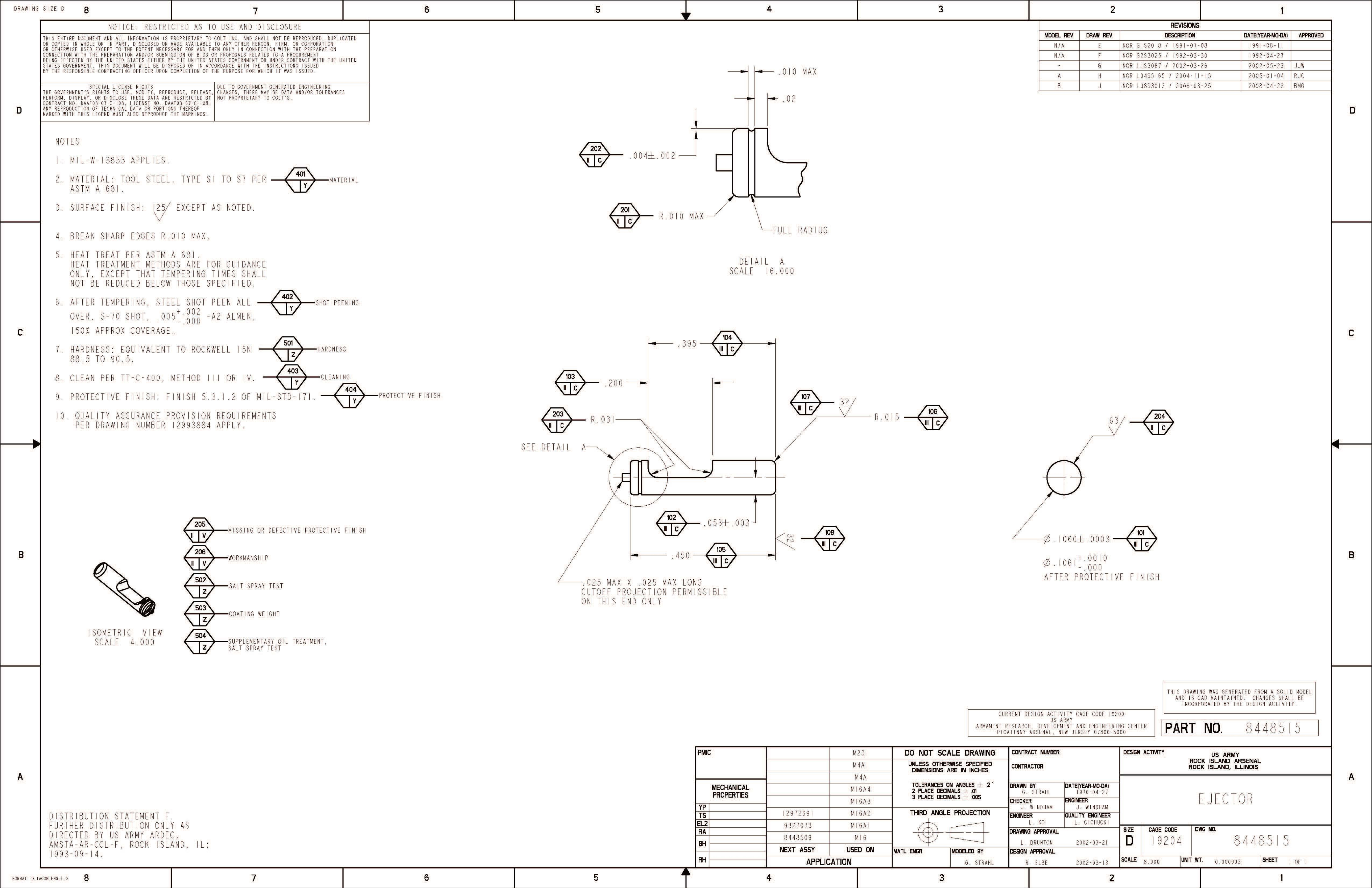
CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
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PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448513

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PMIC				M231 FPW	DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES $\pm 1^\circ$ 2 PLACE DECIMALS $\pm$ 3 PLACE DECIMALS $\pm .005$	CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS						
				M4A1		CONTRACTOR								
				M4										
MECHANICAL PROPERTIES				M16A4		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27						
				M16A3		CHECKER J. WINDHAM		ENGINEER J. WINDHAM						
YP				M16A2	THIRD ANGLE PROJECTION 		ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI					
TS														
EL2		12972691		M16A1			DRAWING APPROVAL L. BRUNTON		2002-03-21					
RA		9327073		M16			DESIGN APPROVAL							
BH		NEXT ASSY		USED ON	MATL ENGR	MODELED BY	R. ELBE		2002-03-21					
RH		APPLICATION					G. STRAHL							
								SCALE		8.000	UNIT WT.	0.000962	SHEET	1 OF 1







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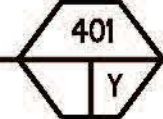
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	G	NOR GIS2018 / 1991-07-08	1991-10-11	
-	H	NOR LIS3067 / 2002-03-26	2002-05-23	JJW
A	J	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	K	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
C	L	NOR L07S3087 / 2007-09-24	2007-10-04	BMG

NOTES

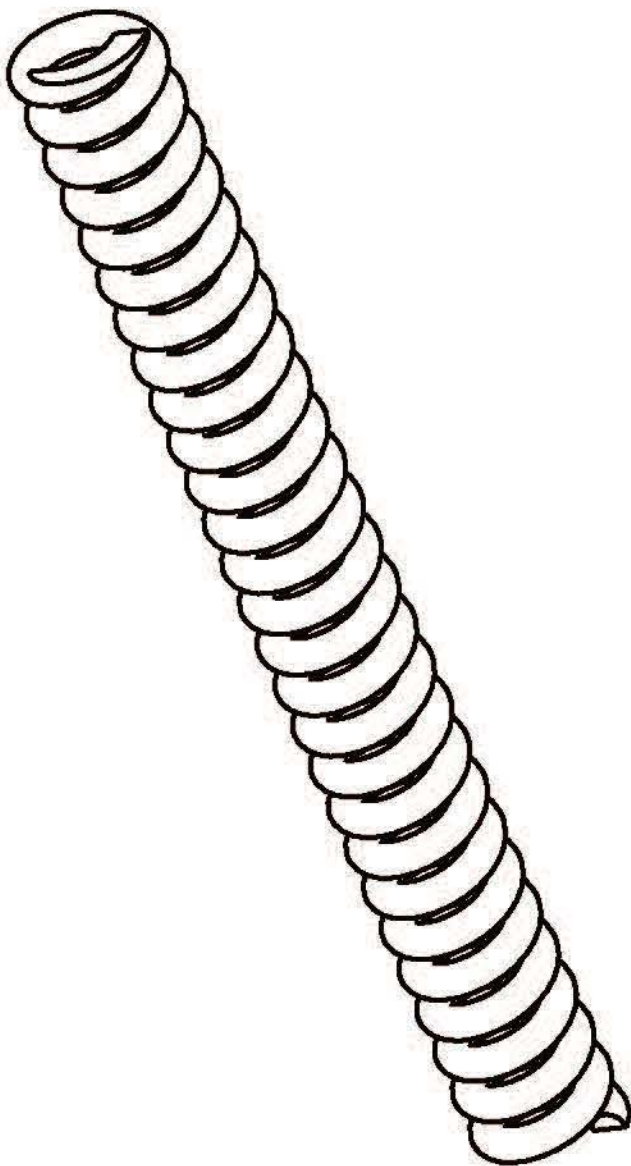
- MIL-W-13855 APPLIES.
- MATERIAL: MUSIC WIRE PER ASTM A 228.  
TENSILE STRENGTH: 376,000 PSI MIN.
- BREAK EDGES  $.003^{+.012}_{-.000}$  EXCEPT AS NOTED.
- STRESS RELIEVE AFTER FORMING.  
HOLD AT  $475\pm25^{\circ}\text{F}$  FOR 30 MINUTES.
- SET SPRING TO SOLID HEIGHT  
3 TIMES AFTER STRESS RELIEF.
- QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.



MATERIAL



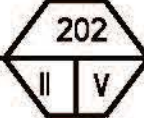
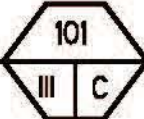
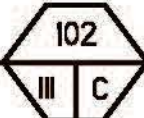
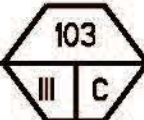
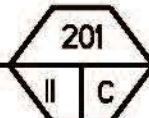
WORKMANSHIP



ISOMETRIC VIEW

SPRING DATA

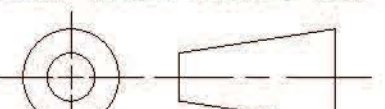
WIRE DIAMETER	.0240 $\pm$ .0003
COIL DIAMETER	.103 $\pm$ .003
TOTAL COILS	27 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .850	2.94 $\pm$ 0.30 LB
LOAD AT COMPRESSED LENGTH OF .784	5.50 $\pm$ 0.25 LB
SPRING RATE	-
SOLID LENGTH	.650 MAX
TYPE OF ENDS	SQUARED, GROUND
FREE LENGTH AFTER SETTING	.926 REF
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A PER MIL-S-13572	



CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
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PART NO. 8448516

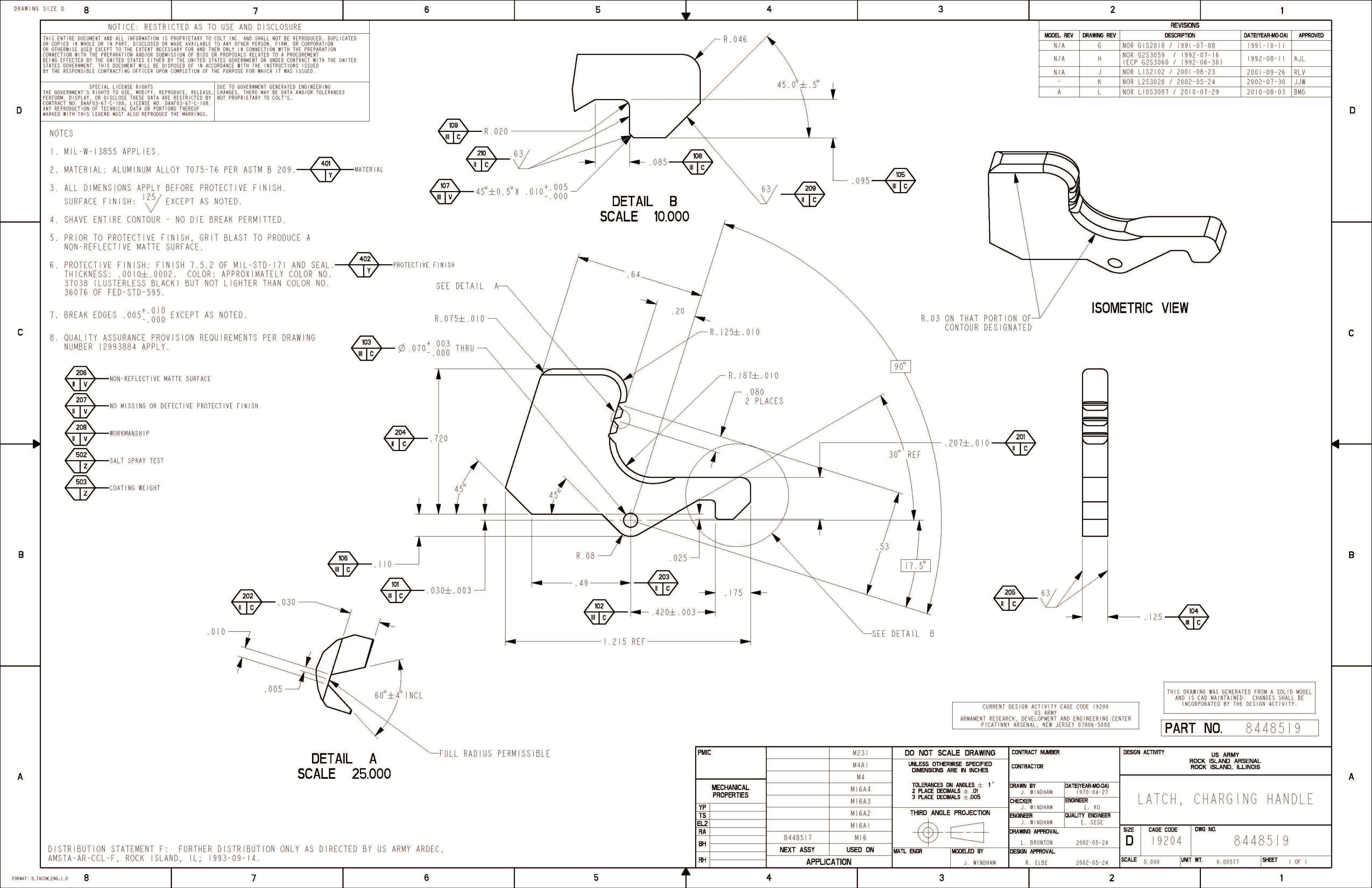
PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
			M231	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR						
		MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005		DRAWN BY D. COLLUM		DATE(YEAR-MO-DA) 1970-04-27		
	M4			THIRD ANGLE PROJECTION		CHECKER G. STRAHL		ENGINEER J. WINDHAM				
9327230	M16A4					ENGINEER L. KO		QUALITY ENGINEER E. SESE				
8448509	M16A3					DRAWING APPROVAL L. BRUNTON 2002-03-21						
8448604	M16A2					DESIGN APPROVAL R. ELBE 2002-03-21						
EL2	8448578	M16A1					SIZE C		CAGE CODE 19204	DWG NO. 8448516		
RA	NEXT ASSY		USED ON		MATL ENGR		MODELED BY D. COLLUM		SCALE 8.000		UNIT WT. 0.000873	SHEET 1 OF 1
BH	APPLICATION											
RH												

DISTRIBUTION STATEMENT F. FURTHER  
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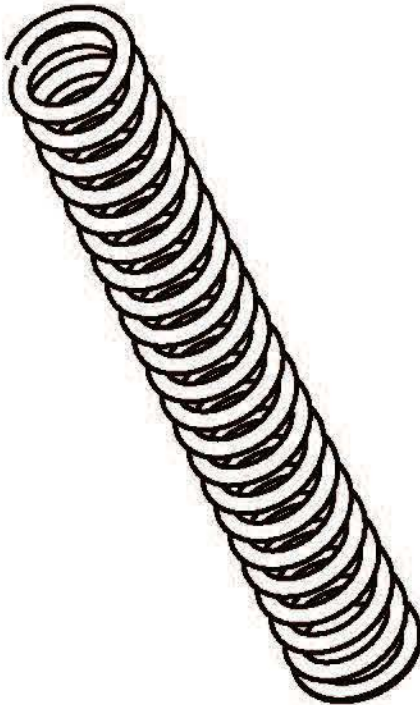
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR
-	F	NOR L2S3028 / 2002-05-24	2002-07-30	JJW
A	G	NOR L10S3087 / 2010-07-29	2010-08-03	BMG

NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: STAINLESS STEEL SPRING WIRE, TYPE 631 (17-7PH), COLD-DRAWN PER ASTM A 313.
3. PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
4. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900° F ± 10° F FOR ONE HOUR. AIR COOL.  
THE HEAT TREATMENT METHODS INDICATED HEREON ARE FOR GUIDANCE ONLY, EXCEPT THAT TIME AT TEMPERATURE SHALL NOT BE REDUCED BELOW THAT SPECIFIED.
5. HARDNESS: ROCKWELL 15N 84.5 MIN.
6. BREAK EDGES .003<sup>+.012</sup><sub>-.000</sub> EXCEPT AS NOTED.
7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

- 202  
II V  
NO MISSING OR DEFECTIVE PROTECTIVE FINISH
- 203  
II V  
WORKMANSHIP

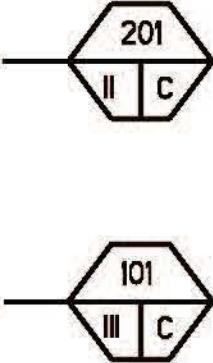


ISOMETRIC VIEW

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

SPRING DATA

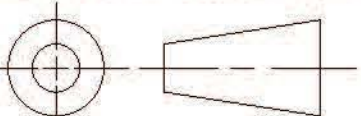
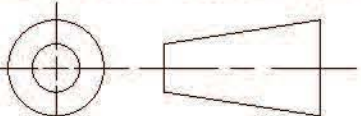
WIRE DIAMETER	.0240±.0005
COIL DIAMETER (O.D.)	.175±.004
FREE LENGTH AFTER SETTING	1.250 REF
TOTAL COILS	21 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .750	3.5 LB ± 0.35 LB
SPRING RATE	-
SOLID LENGTH	.535 MAX
TYPE OF ENDS	CLOSED
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B PER ASI3572	



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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
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PART NO. 8448520

PMIC			M231	DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005	CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
			M4A1		CONTRACTOR		SPRING, CHARGING HANDLE LATCH			
			M4		DRAWN BY G. STRAHL					
MECHANICAL PROPERTIES			M16A4		CHECKER J. WINDHAM	ENGINEER J. WINDHAM	SIZE C CAGE CODE 19204 DWG NO. 8448520			
YP			M16A3		ENGINEER L. KO	QUALITY ENGINEER E. SESE				
TS			M16A2		DRAWING APPROVAL L. BRUNTON 2002-05-24					
EL2			M16A1	THIRD ANGLE PROJECTION 	DESIGN APPROVAL R. ELBE 2002-05-24		SCALE 4.000 UNIT WT. 0.00135 SHEET 1 OF 1			
RA		8448517	M16							
BH		NEXT ASSY	USED ON		MATL ENGR	MODELED BY G. STRAHL				
RH		APPLICATION								



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REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	F	NOR W4S3048 / 1984-10-09	1985-02-14	
N/A	G	NOR GIS2018 / 1990-07-08	1991-10-11	
N/A	H	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	J	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	K	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	L	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
C	M	NOR L08S3049 / 2008-04-30	2008-06-13	BMG
D	N	NOR L08S3148 / 2009-01-21	2009-01-30	BMG

NOTES

1. BREAK EDGES .003<sup>+</sup>.012<sub>-</sub>.000 EXCEPT AS NOTED.
2. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

202

II V

MISSING OR DEFECTIVE PROTECTIVE FINISH

203

II V

WORKMANSHIP

401

W

COC PER NASMI6562



ISOMETRIC VIEW  
SCALE 2.000

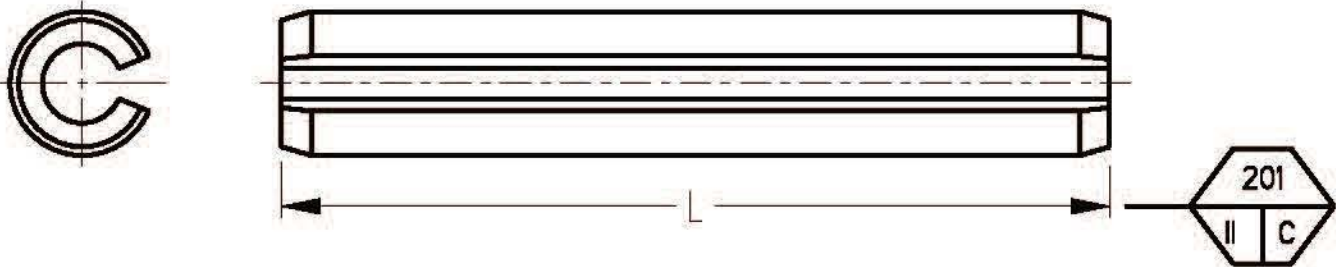


TABLE 1			
GOVERNMENT PART NO.	ALTERED ITEM PART NO.	DIMENSION L	NEXT ASSY
8448521-1	MSI6562-130 PER NASM 16562	.719±.010	8448615 9390023 13004468 13023911
8448521-2	MSI6562-97 PER NASM 16562	.267±.010	8448517 9349086

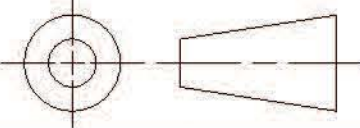
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ALTERED ITEM DRAWING

PART NO. (SEE TABLE 1)

PMIC		M231	DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
		M4A1	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
		M4	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY G. STRAHL		DATE (YEAR-MO-DA) 1970-04-27	
MECHANICAL PROPERTIES		M16A4	THIRD ANGLE PROJECTION		CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM	
YP		M16A3			ENGINEER L. KO		QUALITY ENGINEER E. SESE	
TS		M16A2			DRAWING APPROVAL L. BRUNTON		2001-09-25	
EL2		M16A1			DESIGN APPROVAL R. ELBE		2001-09-25	
RA		(SEE TABLE 1)			SCALE		B 19204	
BH		NEXT ASSY	USED ON		DWG NO.		8448521	
RH		APPLICATION		MATL ENGR	MODELED BY		G. STRAHL	



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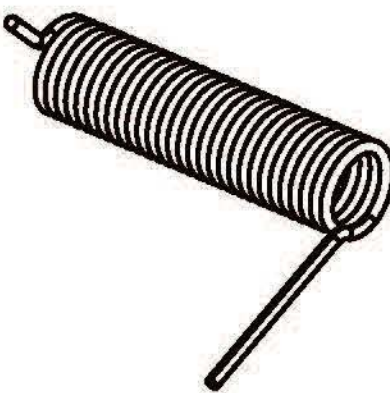
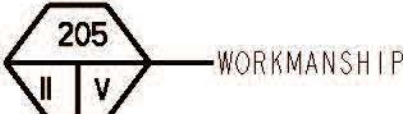
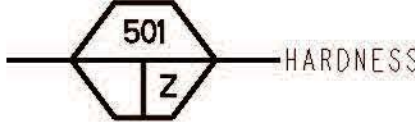
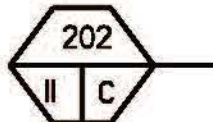
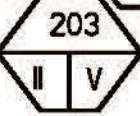
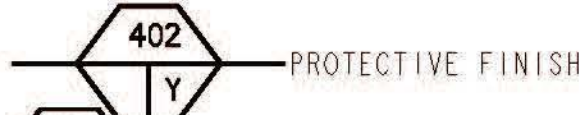
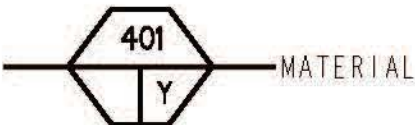
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	L	NOR G5S3014 / 1995-04-17	1996-05-21	RLV
N/A	M	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	N	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	P	NOR L3S2173 / 2003-04-21	2003-06-03	RJC
B	R	NOR L07S3063 / 2007-06-26	2007-07-09	BMG

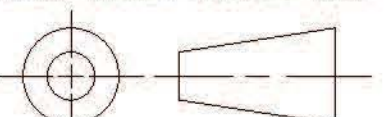
NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STAINLESS STEEL SPRING WIRE, TYPE 631, COLD-DRAWN PER ASTM A 313 OR CORROSION RESISTANT STEEL, COMPOSITION 302, CONDITION B PER AMS-S-7720, EXCEPT THAT PERCENT ELONGATION AND PERCENT REDUCTION OF AREA PER TABLE II SHALL NOT APPLY.
- PROTECTIVE FINISH: FINISH 3.3.4 OF MIL-STD-171.
- DIRECTION OF HELIX: LEFT HAND.
- TOTAL COILS: 29 3/4.
- PRECIPITATION HEAT TREAT TYPE 631 MATERIAL AFTER FORMING. HOLD AT 900° F ± 10° F FOR ONE HOUR. THE HEAT TREATMENT METHODS INDICATED HEREON ARE FOR GUIDANCE ONLY, EXCEPT THAT TIME AT TEMPERATURE SHALL NOT BE REDUCED BELOW THAT SPECIFIED.
- SPRING SHALL BE FREE FROM BURRS, NICKS, SNAGS, AND OTHER INJURIOUS DEFECTS.
- BREAK EDGES .003<sup>+.012</sup><sub>-.000</sub> EXCEPT AS NOTED.
- HARDNESS: ROCKWELL 15N 84.5 MIN OR EQUIVALENT.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 3.000

DISTRIBUTION STATEMENT F:  
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1993-09-14.

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS													
			M231	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR															
MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ±		DRAWN BY		DATE(YEAR-MO-DA)		SPRING, COVER											
		9390029	M4			G. STRAHL		1970-04-27													
		9349062	M16A4			CHECKER		ENGINEER													
		9327228	M16A3			S. GALL - ESERV		J. WINDHAM													
YP						ENGINEER		QUALITY ENGINEER		SIZE C				CAGE CODE		DWG NO.					
TS						L. KO		L. CICHUCKI						19204		8448532					
EL2						DRAWING APPROVAL		L. BRUNTON						2001-09-25		SCALE 5.000		UNIT WT. 0.00165		SHEET 1 OF 1	
RA						DESIGN APPROVAL		R. ELBE						2001-09-25							
BH				THIRD ANGLE PROJECTION																	
																</					

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
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N/A	J	NOR G6S3132 / 1996-08-14	1996-10-03	HJS
N/A	K	NOR G6S3157 / 1996-11-25	1997-01-03	JB
-	L	NOR LIS3048 / 2001-09-25	2002-05-22	JJW

NOTES

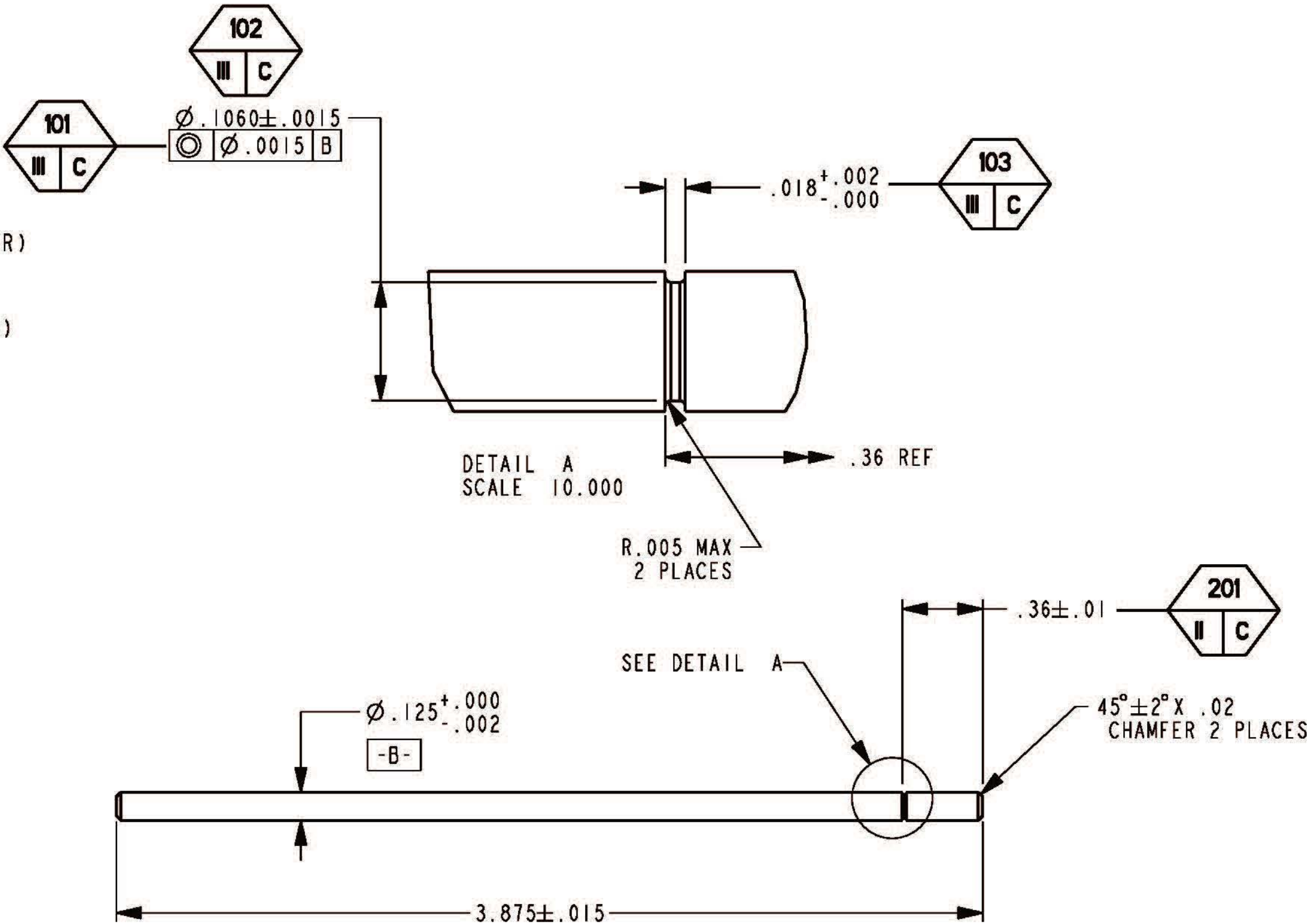
- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, COLD FINISHED, AISI 1018, 1112, OR 1215, SPEC ASTM A108.
- FINAL PROTECTIVE FINISH 5.3.1.2 OF MIL-STD-171.
- BREAK SHARP EDGES .003 MAX.
- HEAT TREAT: CARBURIZE .003 TO .008 TOTAL CASE DEPTH, HARDNESS SHALL BE R15N 80-87.
- SURFACE FINISH 63/.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

204 WORKMANSHIP

203 DEFECTIVE PROTECTIVE COATING

401 MATERIAL (CTR)  
402 PHOSPHATE COATING (CTR)

202 ANSI-B46.1



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PART NO. 8448533

PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
			TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27	
			THIRD ANGLE PROJECTION		CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM	
					ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI	
					DRAWING APPROVAL L. BRUNTON		2001-09-25	
					DESIGN APPROVAL R. ELBE		2001-09-25	
					SIZE C		CAGE CODE 19204	
					SCALE 2/1		UNIT WT. 0.014	
							SHEET 1 OF 1	

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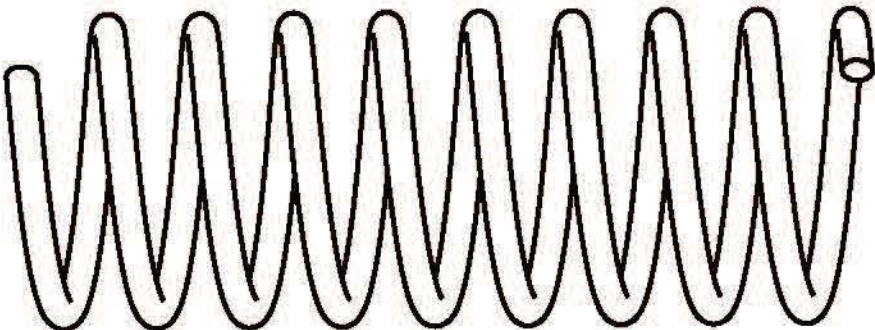
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	F	NOR G8S2005 / 1988-03-10	1988-09-27	
N/A	G	NOR GIS2018 / 1991-07-08	1991-10-11	
-	H	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	J	NOR L06S3020 / 2006-03-29	2006-05-02	BMG

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: WIRE, STEEL, CARBON SPRING, MUSIC, ASTM-A228.
- STRESS RELIEVE: HOLD AT 475°±25° FOR 30 MINUTES. AIR COOL.
- BREAK SHARP EDGES .003+.012.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



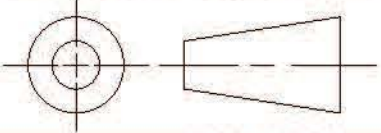
SPRING, HELICAL, COMPRESSION	
WIRE DIAMETER	.0400±.0005
COIL DIAMETER	.41±.01
TOTAL COILS	9 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .630	4.0 LB ± .4 LB
LOAD AT COMPRESSED SETTING OF	-----
SPRING RATE	-----
SOLID LENGTH	.405 MAX
TYPE OF ENDS	OPEN
FREE LENGTH AFTER SETTING	1.13
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572,	
EXCEPT PARAGRAPH 3.4.3 SHALL NOT APPLY	

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PART NO. 8448540

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PMIC			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±  THIRD ANGLE PROJECTION 	CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
	MECHANICAL PROPERTIES			M4A1	CONTRACTOR		SPRING, PLUNGER				
		YP			M4	DRAWN BY G. STRAHL					DATE(YEAR-MO-DA) 1970-04-27
		TS			M16A4	CHECKER S. GALL - ESERV					ENGINEER J. WINDHAM
		EL2			M16A3	ENGINEER L. KO					QUALITY ENGINEER L. CICHUCKI
RA	9390029	M16A2	DRAWING APPROVAL L. BRUNTON 2001-09-25		SIZE C	CAGE CODE 19204	DWG NO. 8448540				
BH	D8448523	M16A1	DESIGN APPROVAL R. ELBE 2001-09-25		SCALE C 4/1	UNIT WT. 0.004	SHEET 1 OF 1				
RH			MATL ENGR	MODELED BY G. STRAHL							
			APPLICATION								



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REVISIONS

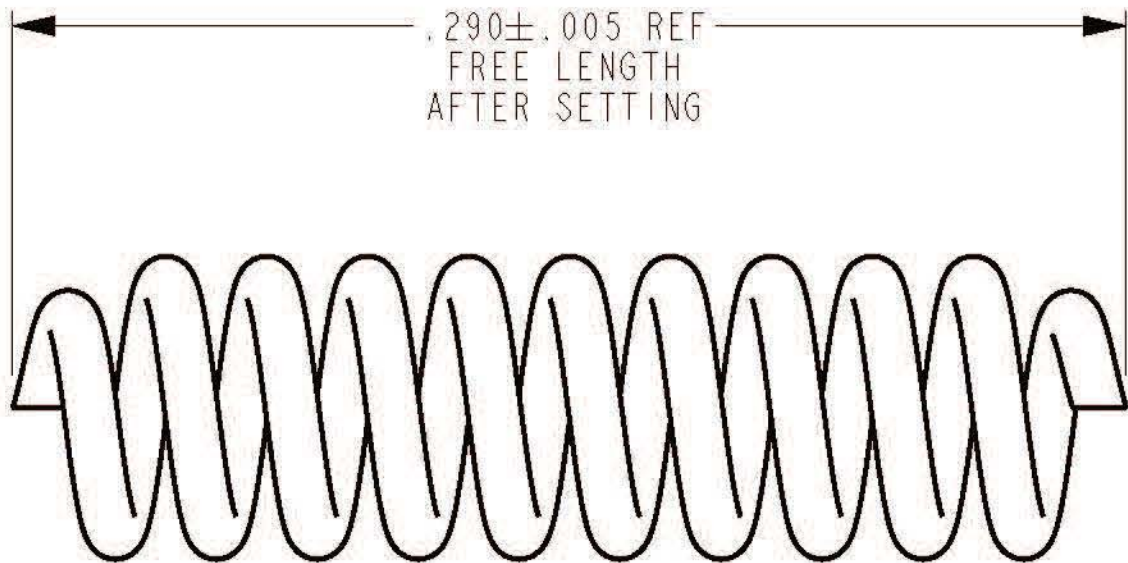
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR G8S2005 / 1988-03-10	1988-09-27	
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	
-	F	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	G	NOR L08S3049 / 2008-04-30	2008-06-13	BMG

NOTES

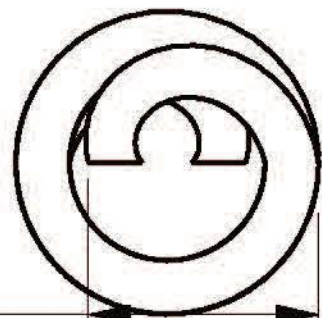
- MIL-W-13855 APPLIES.
- MATERIAL: MUSIC WIRE PER ASTM A 228.
- BREAK EDGES  $.003^{+.012}_{-.000}$  EXCEPT AS NOTED.
- STRESS RELIEF: HOLD AT 475° F ± 25° F FOR 30 MINUTES.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



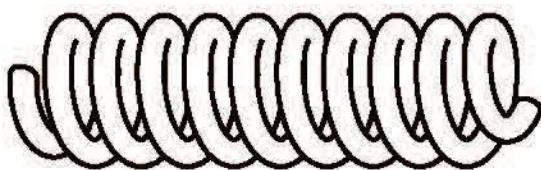
MATERIAL



CRIMP TO  
 $\varnothing .060 \pm .005$   
BOTH ENDS



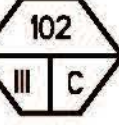
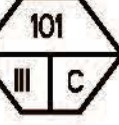
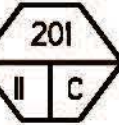
WORKMANSHIP



ISOMETRIC VIEW  
SCALE 10.000

SPRING DATA

WIRE DIAMETER	$\varnothing .0140 \pm .0003$
COIL DIAMETER	$\varnothing .079^{+.000}_{-.005}$
TOTAL COILS	10.5 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .205	$1.75 \pm 0.25$ LB
LOAD AT COMPRESSED SETTING OF	-
SPRING RATE	-
SOLID LENGTH	.170 MAX
TYPE OF ENDS	PLAIN CRIMPED AS SHOWN
FREE LENGTH AFTER SETTING	-
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B PER ASI3572.	



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PART NO. 8448542

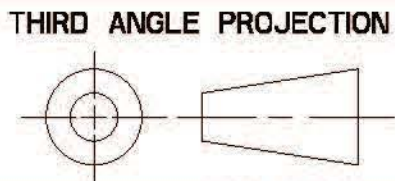
DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC; AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

PMIC		
		M4A1
		M4
		M16A4
		M16A3
	9349086	M16A2
	8448541	M16A1
	NEXT ASSY	USED ON
	APPLICATION	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± 2°  
2 PLACE DECIMALS ± .01  
3 PLACE DECIMALS ± .005



MATL ENGR

MODELED BY

G. STRAHL

CONTRACT NUMBER

CONTRACTOR

DRAWN BY

G. STRAHL

DATE(YEAR-MO-DA)

1970-04-27

CHECKER

S. GALL - ESERV

ENGINEER

J. WINDHAM

ENGINEER

L. KO

QUALITY ENGINEER

L. CICHUCKI

DRAWING APPROVAL

L. BRUNTON

2001-09-25

DESIGN APPROVAL

R. ELBE

2001-09-25

DESIGN ACTIVITY

US ARMY  
ROCK ISLAND ARSENAL  
ROCK ISLAND, ILLINOIS

SPRING, BOLT

SIZE

C

CAGE CODE

19204

DWG NO.

8448542

SCALE

20.000

UNIT WT.

0.0000929

SHEET

1 OF 1



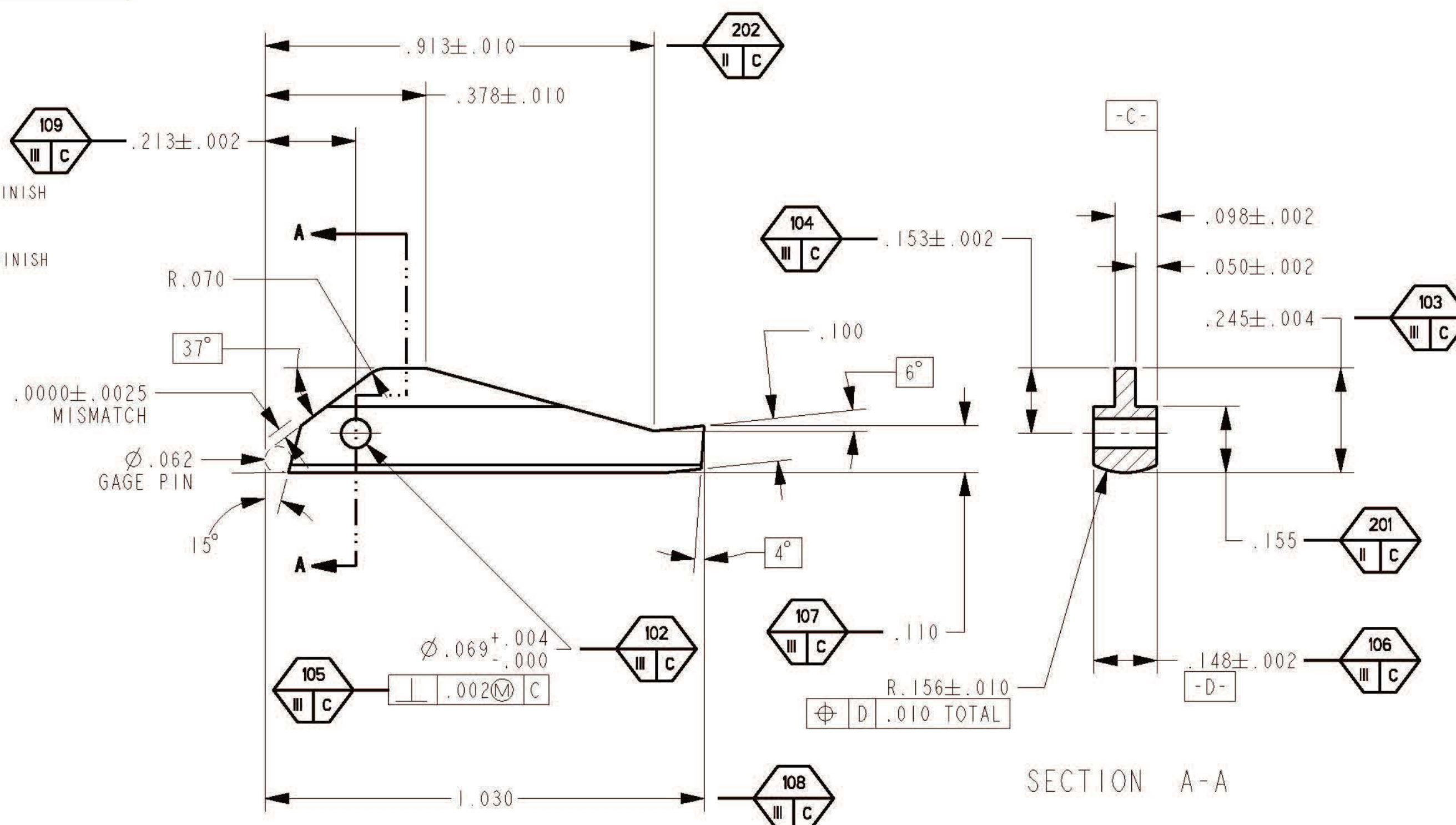
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MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	E	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	
-	F	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	H	NOR L08S3049 / 2008-04-30	2008-06-13	BMG

7. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.




ISOMETRIC VIEW  
SCALE 2.000



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PART NO.	8448543
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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY											
MECHANICAL PROPERTIES				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES $\pm 1^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS  PAWL, FORWARD ASSIST											
			M4A1																
			M4																
			M16A4																
YP						DRAWN BY		DATE(YEAR-MO-DA)		SIZE C		CAGE CODE 19204		DWG NO. 8448543					
TS						G. STRAHL		1970-04-27											
EL2						CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM											
RA						ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI											
BH		9349086	M16A3	MATL ENGR		DRAWING APPROVAL				SCALE		4.000		UNIT WT. 0.00578		SHEET		1 OF 1	
						L. BRUNTON		2001-09-25											
						DESIGN APPROVAL													
						R. ELBE		2001-09-25											
RH		8448541	M16A1																
		NEXT ASSY	USED ON																
		APPLICATION																	



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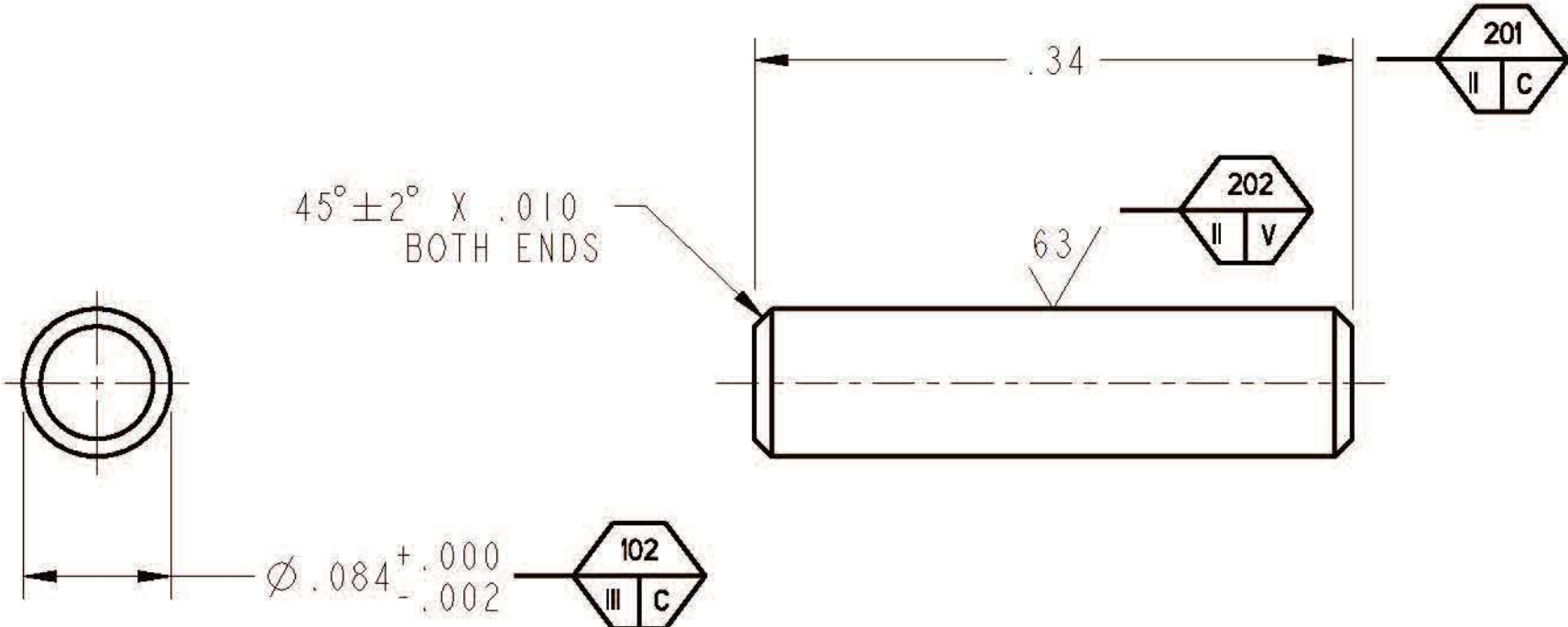
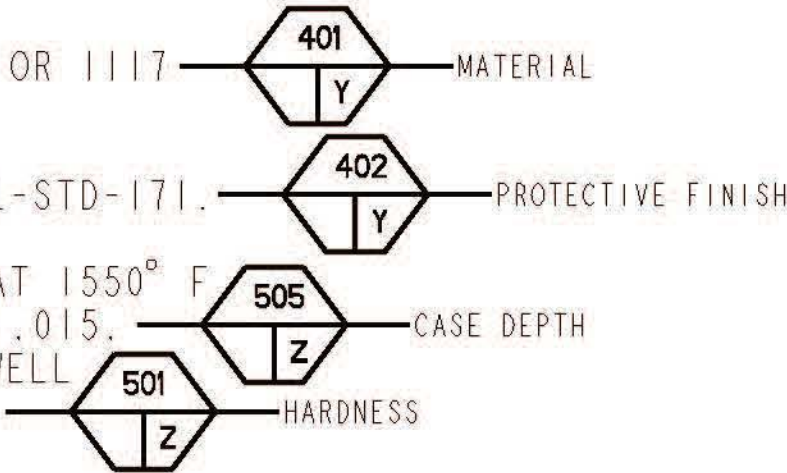
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	H	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	
N/A	J	NOR G2S3122 / 1993-01-08	1993-03-10	
-	K	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	L	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	M	NOR L08S3049 / 2008-04-30	2008-06-13	BMG

NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: STEEL, AISI 1018, 1020, 1022, OR 1117 PER ASTM A 108.
3. PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.
4. SUGGESTED HEAT TREAT: LIQUID CARBURIZE AT 1550° F TO OBTAIN A TOTAL CASE DEPTH OF .010 TO .015. HARDEN AND TEMPER AT 400° F MIN TO ROCKWELL 15N 89 MIN OR EQUIVALENT.
5. BREAK EDGES .005<sup>+</sup><sub>-.000</sub> EXCEPT AS NOTED.
6. SURFACE FINISH: 125/ EXCEPT AS NOTED.
7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



- 203 MISSING OR DEFECTIVE PROTECTIVE FINISH (II V)
- 204 WORKMANSHIP (II V)
- 502 SALT SPRAY TEST (Z)
- 503 COATING WEIGHT (Z)
- 504 SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST (Z)



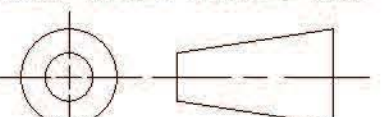
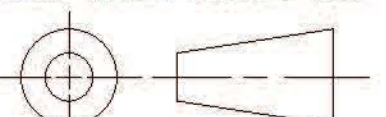
ISOMETRIC VIEW

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

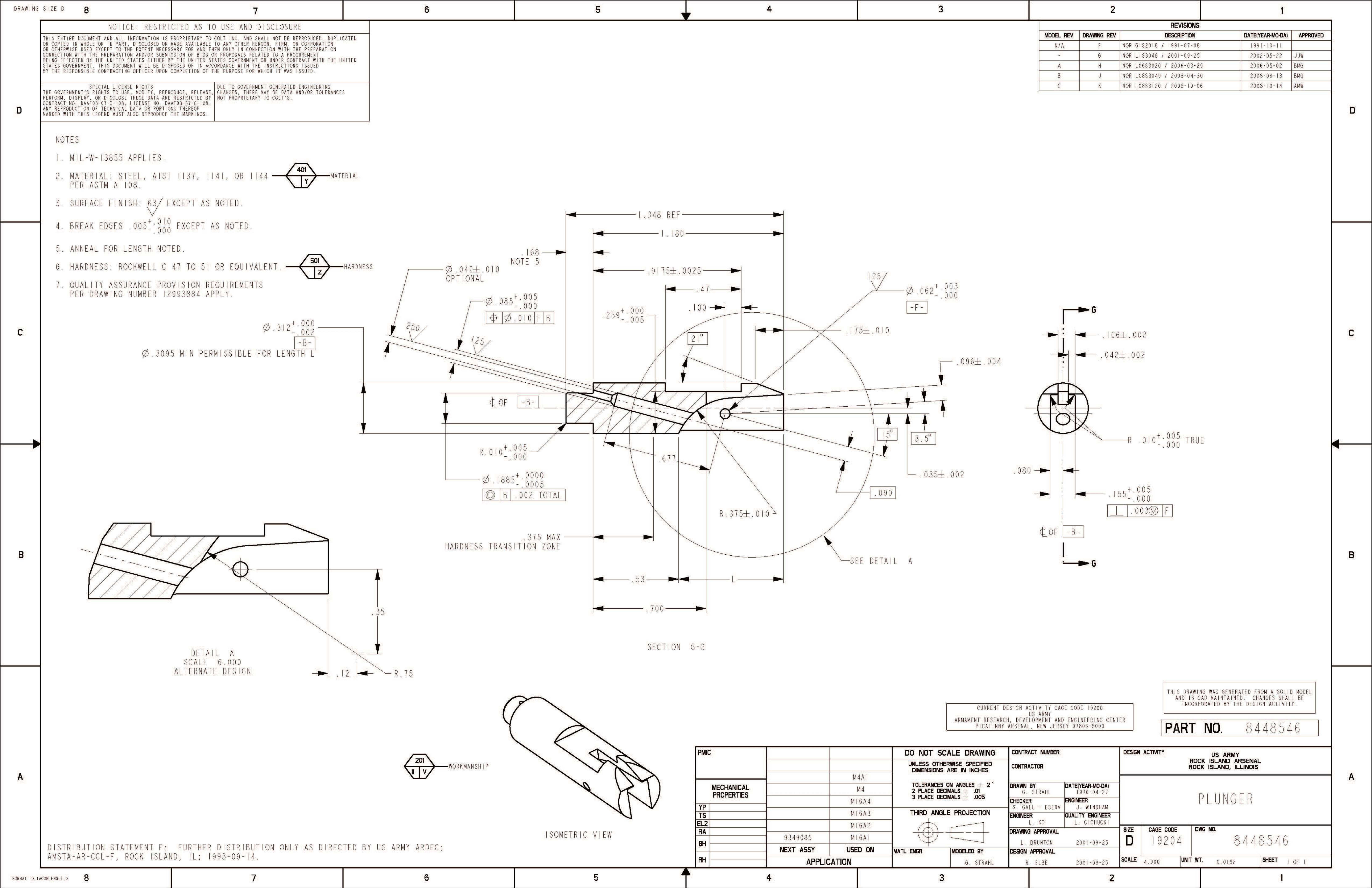
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PART NO. 8448544

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PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES $\pm 2^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$	CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
					CONTRACTOR							
		MECHANICAL PROPERTIES			M4A1	THIRD ANGLE PROJECTION 	DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1970-04-27	DETENT, PAWL			
					M4		CHECKER S. GALL - ESERV	ENGINEER J. WINDHAM				
	M16A4		ENGINEER L. KO	QUALITY ENGINEER L. CICHUCKI								
YP			M16A3		DRAWING APPROVAL L. BRUNTON 2001-09-25		SIZE C	CAGE CODE 19204	DWG NO. 8448544			
TS		9349086	M16A2		DESIGN APPROVAL R. ELBE 2001-09-25		SCALE 10.000	UNIT WT. 0.000539	SHEET 1 OF 1			
EL2		8448541	M16A1									
RA		NEXT ASSY	USED ON		MATL ENGR	MODELED BY G. STRAHL						
BH		APPLICATION										
RH												







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REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR W3S3133 / 1983-08-25	1988-11-04	
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	
-	F	NOR LIS3038 / 2001-08-27	2002-05-24	JJW
A	G	NOR L04S5155 / 2004-08-24	2004-11-08	RJC

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855

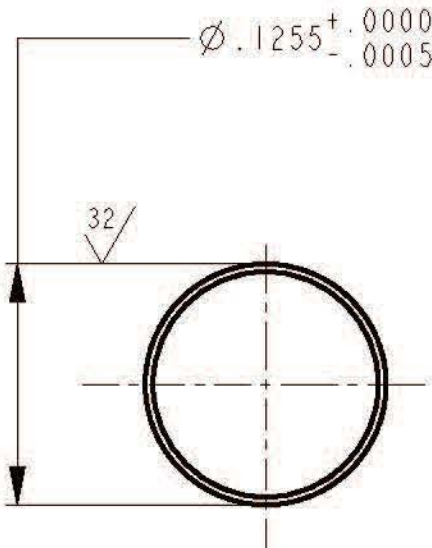
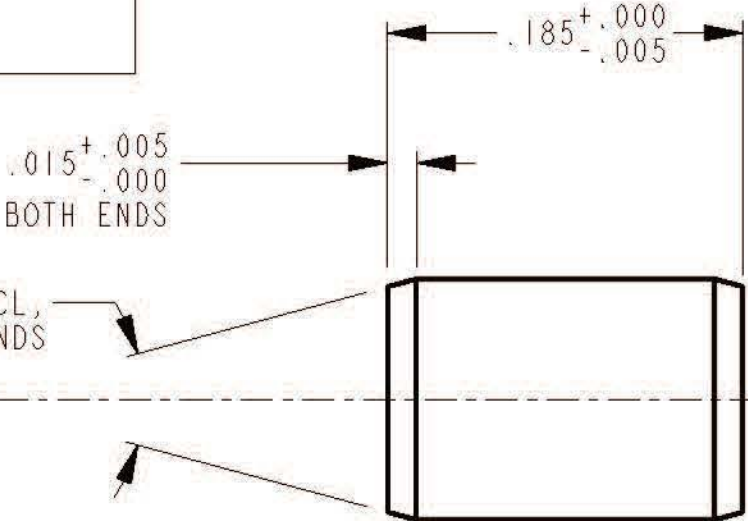
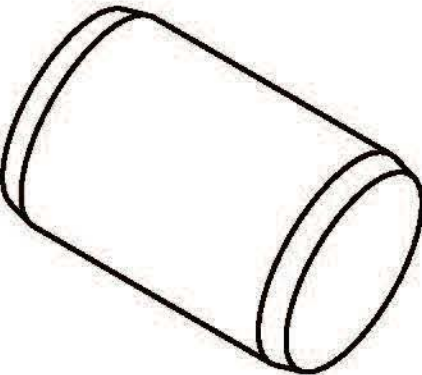
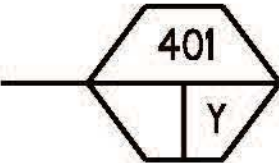
2. MATERIAL: STEEL, AISI 1137, 1141, OR 1144 PER ASTM A 108.

3. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.

4. SURFACE FINISH 125 EXCEPT AS NOTED.

5. BREAK SHARP EDGES .010 MAX.

6. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

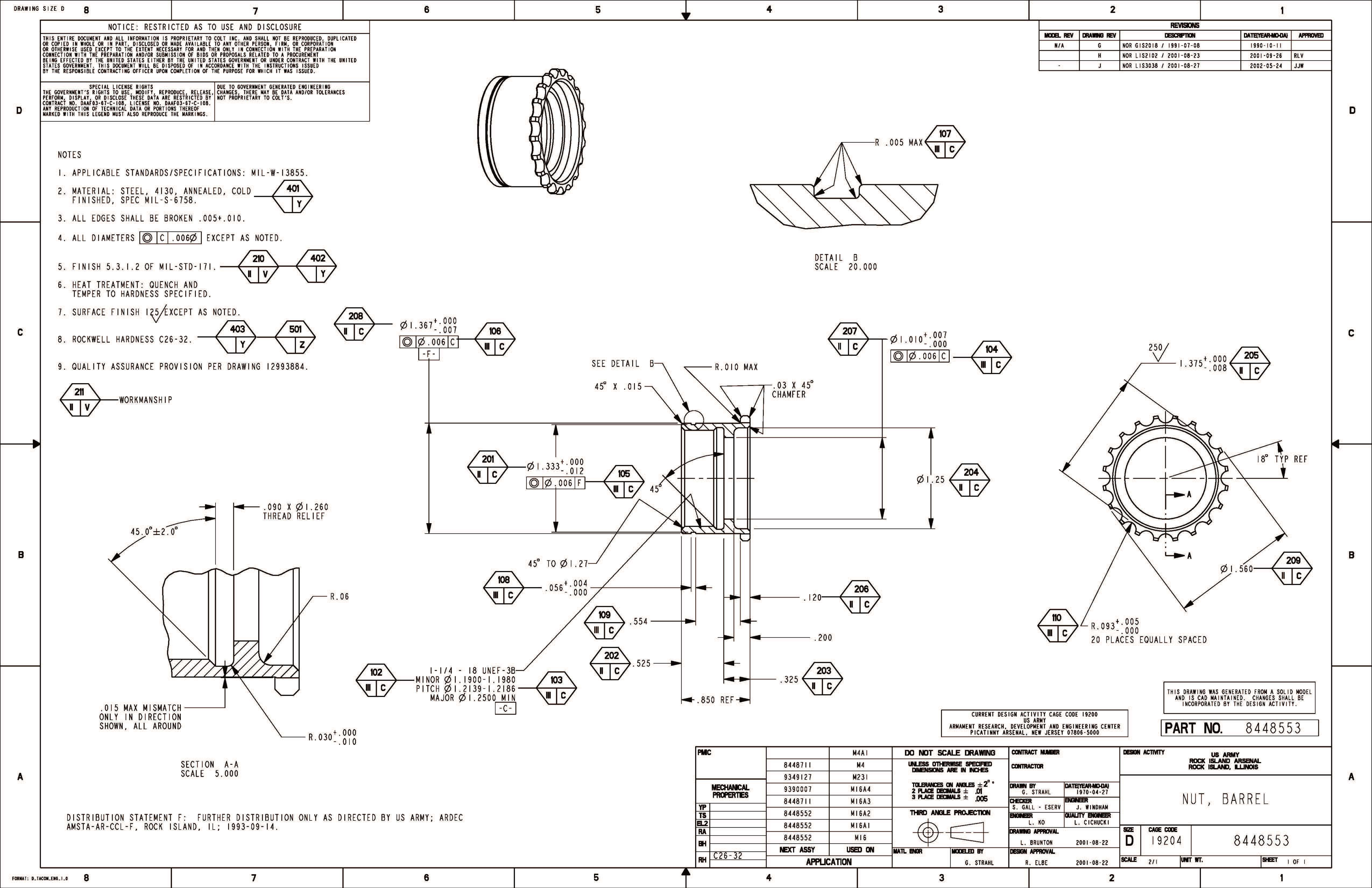
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PART NO. 8448551

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
			M4A1	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY	
			M16A4					ROCK ISLAND ARSENAL	
MECHANICAL PROPERTIES			M16A3	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY G. STRAHL		DATE (YEAR-MO-DA) 1970-04-27	
YP		9390009	M4	THIRD ANGLE PROJECTION		CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM	
TS		F9327056	M231			ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI	
EL2			M16A2			DRAWING APPROVAL L. BRUNTON		2001-08-22	
RA		F8448548	M16A1			DESIGN APPROVAL R. ELBE		2001-08-22	
BH				MATL ENGR		MODELED BY G STRAHL			
RH	15N 78.5-80.5								
		APPLICATION							







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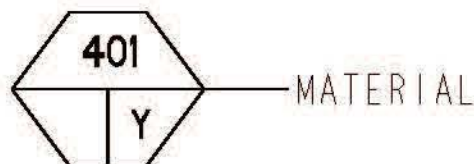
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REVISIONS

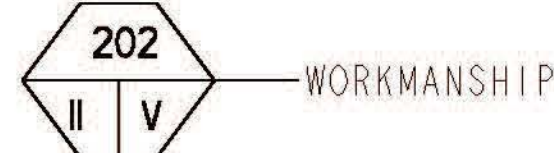
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	F	NOR G0S3009 / 1990-02-07	1990-04-13	
N/A	G	NOR GIS2018 / 1991-07-08	1991-10-11	
-	H	NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	J	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

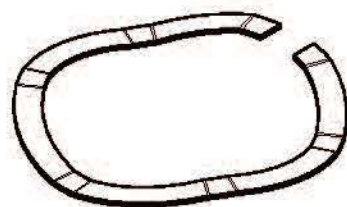
- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, ASTM A684, 1075 COLD ROLLED STRIP ANNEALED. MATERIAL THICKNESS .020±.001.
- SURFACE FINISH 125/.
- DEBURR AND BREAK EDGES TO .002 MINIMUM.
- BEND RADIUS .06.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



MATERIAL

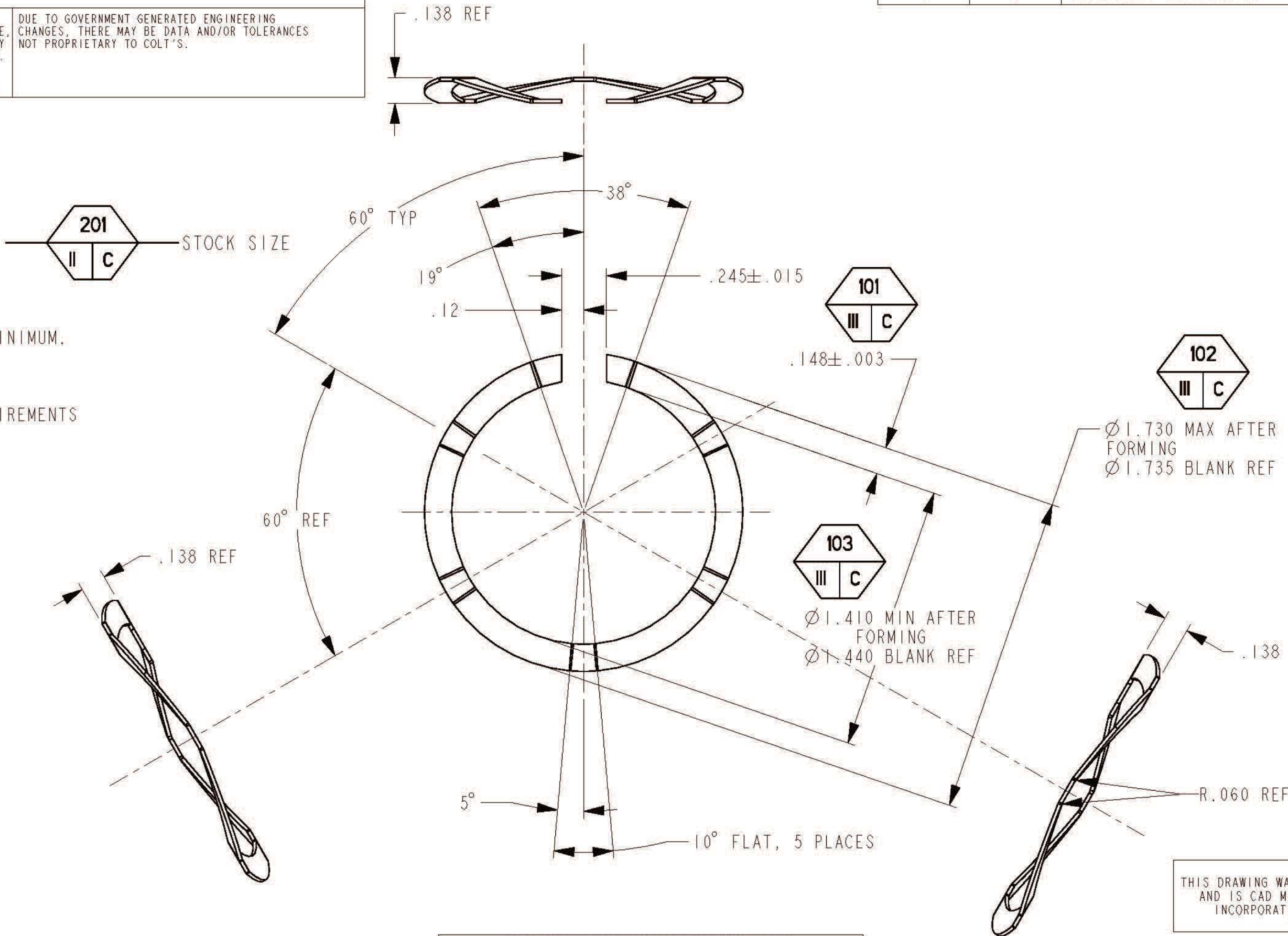


WORKMANSHIP



ISO VIEW  
SCALE 1.000

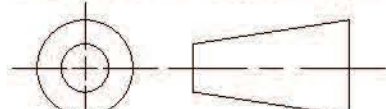
DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC; AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.



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PART NO. 8448556

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY							
			MI6A4	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS							
			MI6A3												
MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES $\pm .5^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY		DATE(YEAR-MO-DA)		SPRING SECTION, HAND GUARD SLIP RING					
			M4			T. KULIG - ESERV		1970-05-27							
YP		C8448555	M231	THIRD ANGLE PROJECTION		CHECKER		ENGINEER							
TS		C8448555	MI6,MI6A2			G. STRAHL		J. WINDHAM							
EL2			MI6A1			ENGINEER		QUALITY ENGINEER							
RA		C8448555				L. KO		L. CICHUCKI							
BH		NEXT ASSY		USED ON		DRAWING APPROVAL		SIZE		CAGE CODE		DWG NO.			
RH		APPLICATION		MATL ENGR		MODELED BY		DESIGN APPROVAL		C	19204	8448556			
															L. BRUNTON
						R. ELBE		2001-11-16		SCALE	2.000	UNIT WT.	0.004	SHEET	1 OF 1



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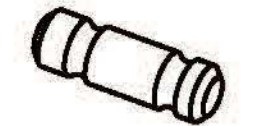
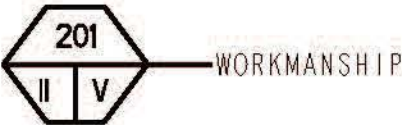
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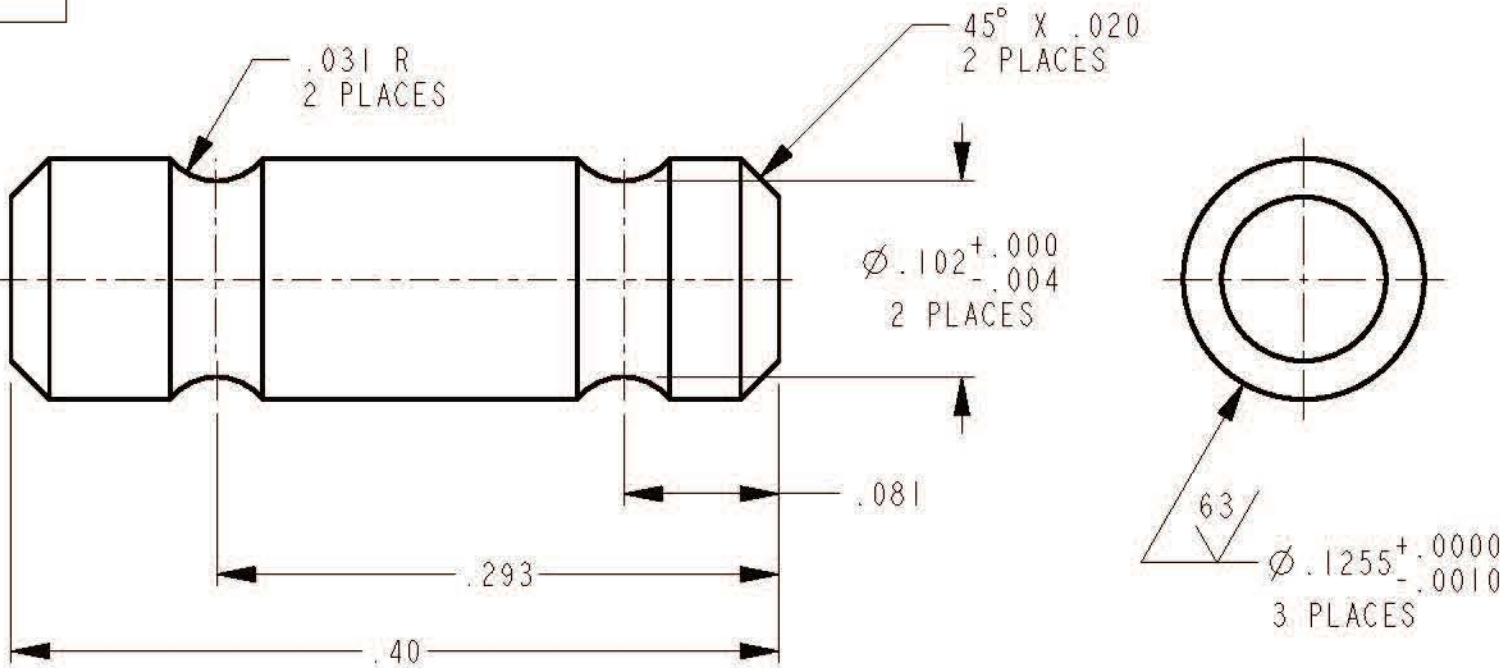
REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	RR
N/A	E	NOR G6S3135 / 1996-09-26	1996-10-30	DR
-	F	NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	G	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
B	H	NOR L08S3013 / 2008-03-25	2008-04-23	BMG

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STAINLESS STEEL, TYPE 302, 304, OR 321 PER ASTM A 580, CONDITION A OR PER ASTM A 484.
- PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
- SURFACE FINISH: 125 EXCEPT AS NOTED.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 2.500

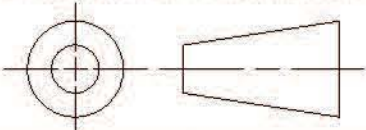


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PART NO. 8448570

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY		PLUG, GAS TUBE				
			M4			G. STRAHL					DATE (YEAR-MO-DA) 1970-04-27	
			M16A4			CHECKER					ENGINEER	
			M16A3			S. GALL - ESERV					J. WINDHAM	
YP				THIRD ANGLE PROJECTION 		ENGINEER		QUALITY ENGINEER				
TS						L. KO		L. CICHUCKI				
EL2		8448568	M16A2			DRAWING APPROVAL						
RA		9390017	M16A1			L. BRUNTON 2001-11-16						
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY		SIZE		CAGE CODE	DWG NO.	
RH		APPLICATION				G. STRAHL		B		19204	8448570	
								SCALE		UNIT WT	SHEET	
								10.000		0.00131	1 OF 1	

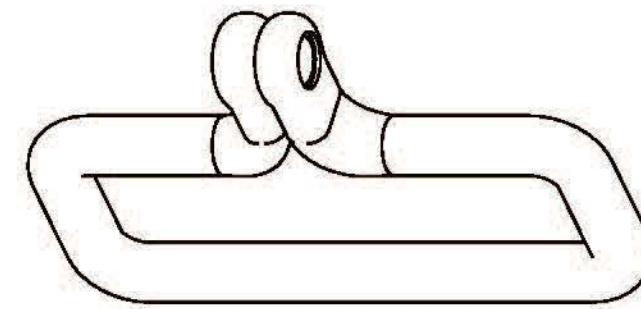


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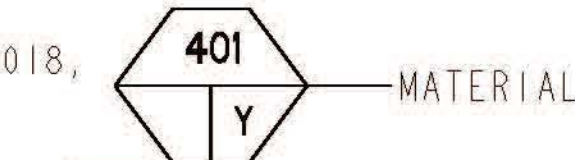
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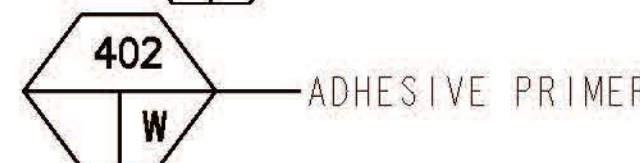
## NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855

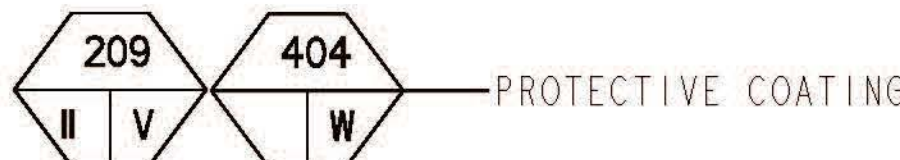
2. MATERIAL: WIRE, STEEL, CMPSN 1010 OR 1018,  
.156 DIA, ASTM A510.



3. APPLY BLACK PLASTIC PLASTISOL COATING,  
PER MIL-P-20689, TYPE 1, CLASS 2,  
TO ALL AREAS INDICATED BY -F-



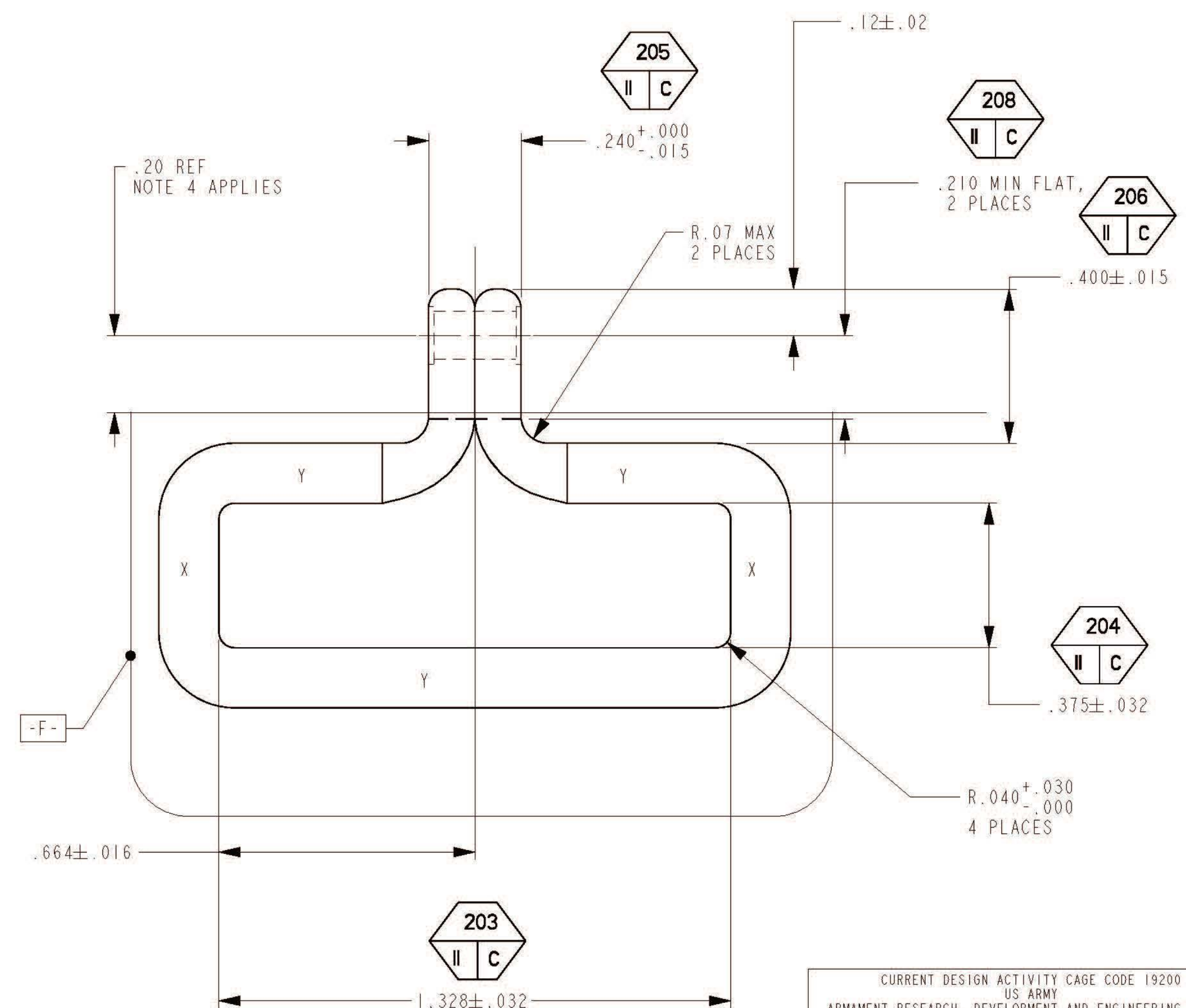
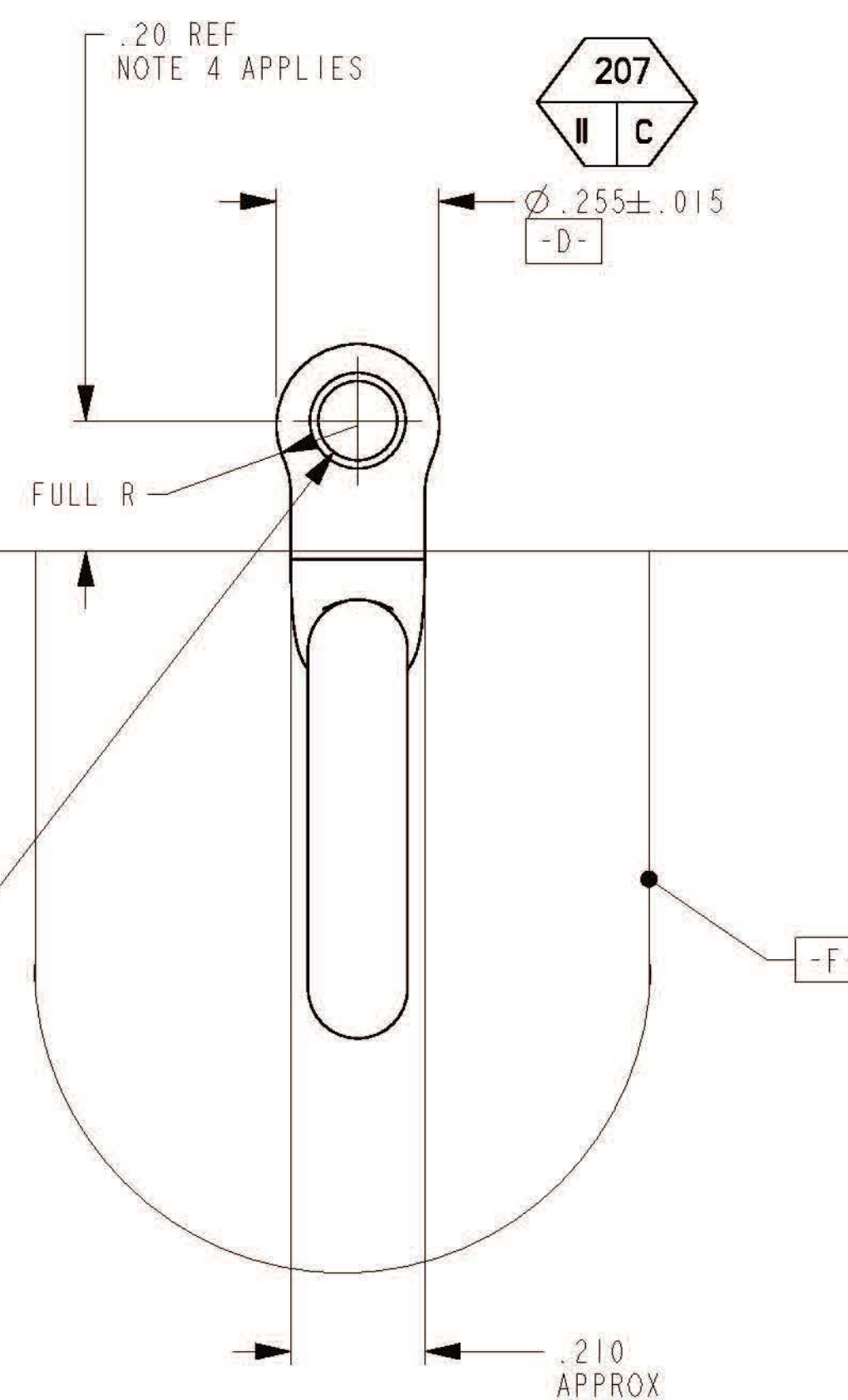
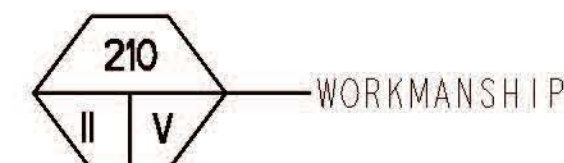
4. PLASTISOL COAT ALL SURFACES TO WITHIN  $.20 \pm .05$  OF MOUNTING HOLE CENTER. AREA AROUND MOUNTING HOLE MUST BE FREE OF COATING. PLASTIC COATED DIA TO BE  $.165 \pm .040$  (2) VERT LEGS (X)  $.165 \pm .060$  ON (3) HORIZONTAL SECTIONS (Y).



6. TOOL AND FORMING MARKS PERMISSIBLE PRIOR TO PLASTISOL COATING, PROVIDED COATING IS NOT DEGRADED TO THE EXTENT OF SURFACE DISCONTINUITIES.

7. SURFACE FINISH 63/.

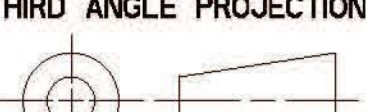
8. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING 12993884 APPLY.



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PART NO.	8448571
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PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
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MECHANICAL PROPERTIES	12598106	M16A4	TOLERANCES ON ANGLES $\pm$ ° 2 PLACE DECIMALS $\pm$ 3 PLACE DECIMALS $\pm$ .005		DRAWN BY		DATE(YEAR-MO-DA)	
	9349057	M16A3			G. STRAHL		1970-04-27	
	9349057	M16A2			CHECKER		ENGINEER	
					G. STRAHL		J. WINDHAM	
YP	9390001	M4	THIRD ANGLE PROJECTION		ENGINEER		QUALITY ENGINEER	
TS					L. KO		L. CICHUCKI	
EL2	C8448565	M16			DRAWING APPROVAL			
RA	C8448565	M16A1			L. BRUNTON		2001-11-16	
BH					DRAWING APPROVAL			
RH			MATL ENGR		MODELED BY		SCALE	
	NEXT ASSY	USED ON			R. ELBE		2001-11-16	
APPLICATION							UNIT WT.	
							SHEET	
							1 OF 1	

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PART NO. 8448573



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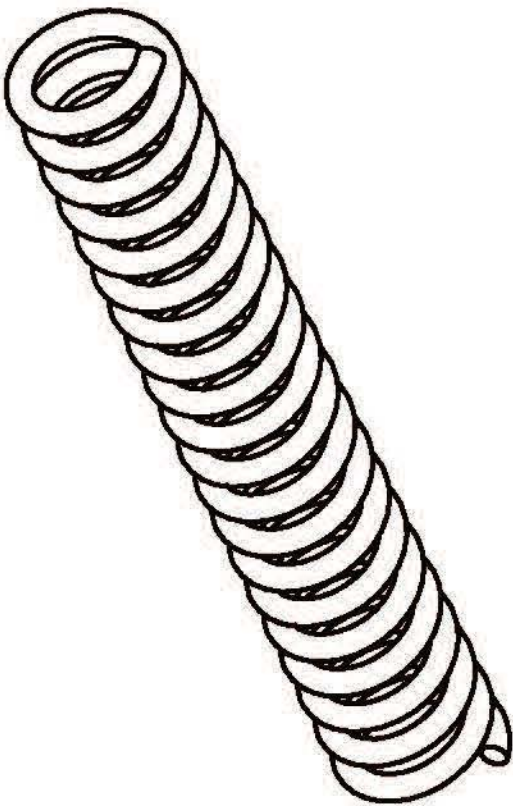
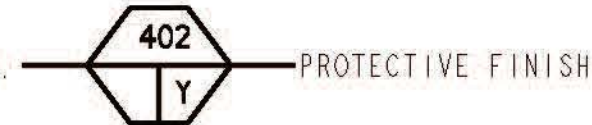
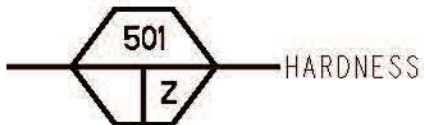
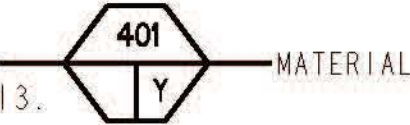
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	
-	E	NOR LIS3038 / 2001-08-27	2002-05-24	JJW
A	F	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
B	G	NOR L07S3050 / 2007-05-22	2007-05-24	BMG
C	H	NOR L09S3168 / 2009-11-17	2009-11-18	BMG

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STAINLESS STEEL SPRING WIRE, TYPE 631 (17-7PH), COLD-DRAWN PER ASTM A 313.
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900° F ± 10° F FOR ONE HOUR. AIR COOL. THE HEAT TREATMENT METHODS INDICATED HEREON ARE FOR GUIDANCE ONLY, EXCEPT THAT TIME AT TEMPERATURE SHALL NOT BE REDUCED BELOW THAT SPECIFIED. HARDNESS: ROCKWELL 15N 84.5 MIN OR EQUIVALENT.
- BREAK EDGES .003<sup>+</sup><sub>-.000</sub> EXCEPT AS NOTED.
- PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

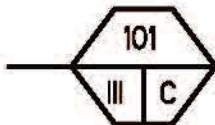
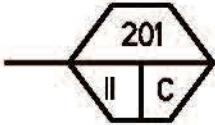


ISOMETRIC VIEW

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY; ARDEC AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

SPRING DATA

WIRE DIAMETER	.0180±.0005
COIL DIAMETER (O.D.)	.115±.003
FREE LENGTH	.75 REF
TOTAL COILS	20 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .557 AFTER SET	1.78 LB ± 0.18 LB
LOAD AT COMPRESSED LENGTH OF -	-
SPRING RATE	-
SOLID LENGTH	.390 MAX
TYPE OF ENDS	CLOSED
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B PER ASI3572	



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US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
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PART NO. 8448574

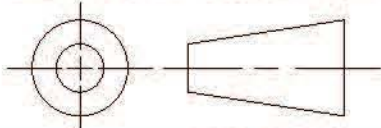
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	12973010	
	12972680	
MECHANICAL PROPERTIES	12598107	M4A1
	9390007	M4
	9349124	M16A4
	9349050	M16A3
	8448663	M16A2
YP	8448601	M16A1
TS	8448522	M16
EL2		
RA		
BH		
RH		
APPLICATION		

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± °  
2 PLACE DECIMALS ±  
3 PLACE DECIMALS ± .005

THIRD ANGLE PROJECTION



MATL ENGR

MODELED BY

G. STRAHL

CONTRACT NUMBER

CONTRACTOR

DRAWN BY  
G. STRAHL

DATE(YEAR-MO-DA)  
1970-04-27

CHECKER  
S. GALL - ESERV

ENGINEER  
J. WINDHAM

ENGINEER  
L. KO

QUALITY ENGINEER  
L. CICHUCKI

DRAWING APPROVAL

L. BRUNTON 2001-08-22

DESIGN APPROVAL

R. ELBE 2001-08-22

DESIGN ACTIVITY

US ARMY  
ROCK ISLAND ARSENAL  
ROCK ISLAND, ILLINOIS

SPRING,  
FRONT SIGHT DETENT

SIZE

C

CAGE CODE

19204

DWG NO.

8448574

SCALE 8.000

UNIT WT.

0.000443

SHEET

1 OF 1



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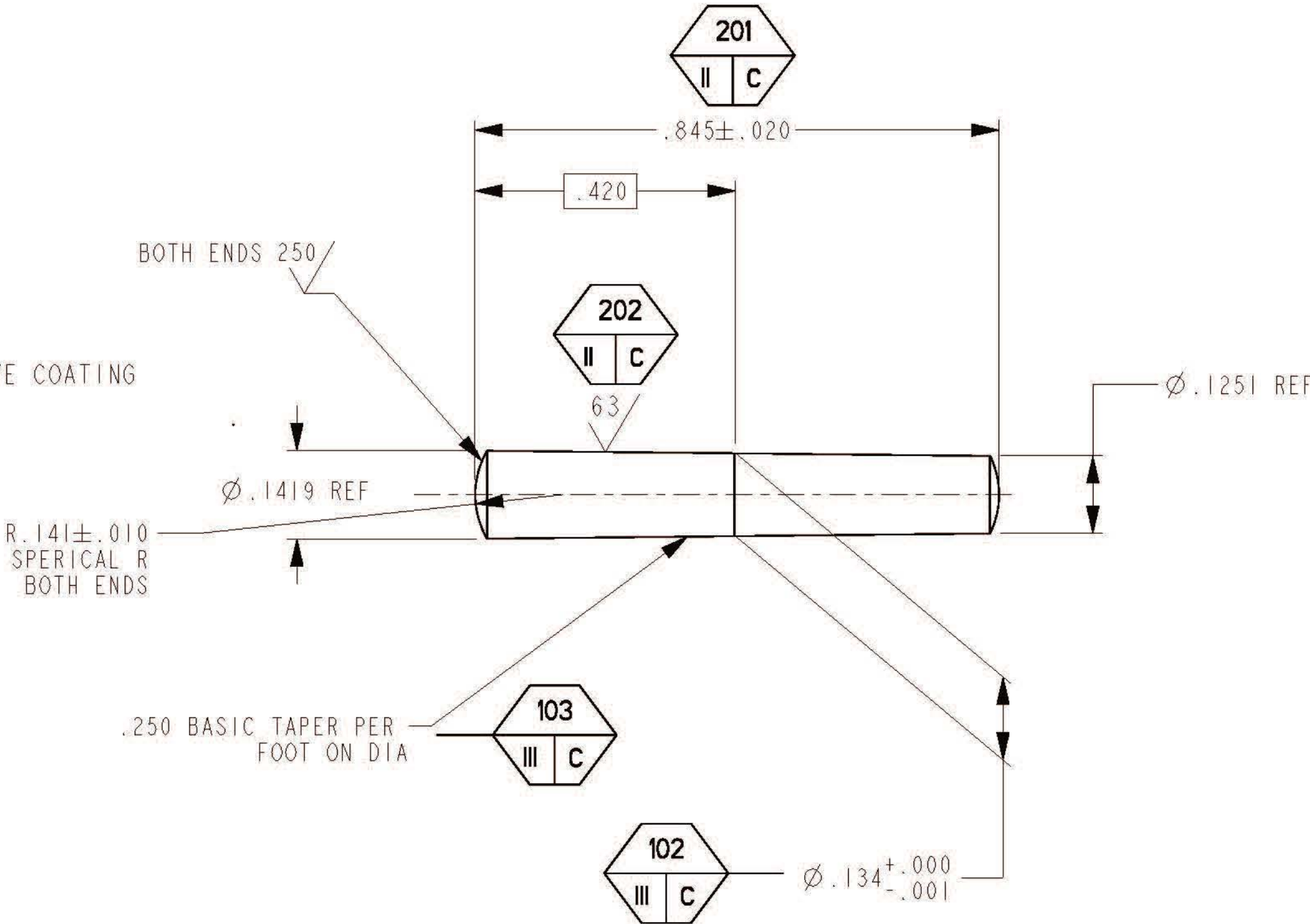
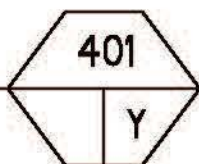
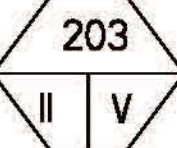
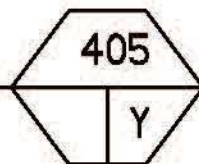
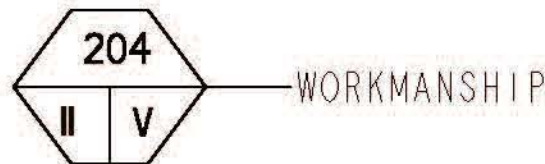
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REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	H	NOR G5S3009 / 1995-03-30	1995-07-26	DR
-	J	NOR LIS3038 / 2001-08-27	2002-05-24	JJW
A	K	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, CMPSN 4027, 4028, AND 4037, SPEC ASTM A304 OR STEEL, CMPSN 1030, 1033, 1035, 1037, AND 1038, SPEC ASTM A108.
- BREAK SHARP EDGES .005 +.010.
- SUGGESTED HEAT TREAT: LIQUID CARBURIZE AT 1550° TO OBTAIN A TOTAL CASE DEPTH OF .010/.015.
- ROCKWELL HARDNESS 15N 89-91.
- FINAL PROTECTIVE FINISH 5.3.1.2 OF MIL-STD-171.
- QUALITY ASSURANCE PROVISIONS PER DRAWING 12993884 APPLY.



506. REFERENCED NUMBER 404 CASE DEPTH. THE CONTRACTOR SHALL PROVIDE THE GOVERNMENT REPRESENTATIVE WITH CERTIFIED REPORTS OF CASE DEPTH TEST AND STATEMENTS OF COMPLIANCE TO THREE (3) SAMPLES FORM EACH DAY'S PRODUCTION FROM EACH CARBURIZING FURNACE OR SALT POT USED. THE TEST SPECIMEN SHALL BE A COMPONENT, A SCRAP COMPONENT OR A TEST PIECE OF SIMILIAR CROSS SECTION. IT SHALL BE CUT PERPENDICULAR TO THE CASED SURFACE AND THE CUT SURFACES SHALL THEN BE PREPARED BY GRINDING AND OR ROUGH POLISHED TO REMOVE THE EFFECTS OF THE ORIGINAL CUT. ETCHING WILL BE DONE WITH A 5 TO 10% NITAL SOLUTION AND FOR SUFFICIENT TIME TO DEVELOP A CONTRAST IN CASE AND CORE STRUCTURE. THE DEPTH OF CASE SHALL BE THE TOTAL DISTANCE SO PENETRATIONS FROM THE SURFACE TO THE NEAREST POINT OF UNIFORM CORE STRUCTURE AS MEASURED ON A POLISHED AND ETCHED SPECIMEN AT A MAGNIFICATION NOT LOWER THAN 10 DIAMETERS.

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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448575

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PMIC		M231	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005  THIRD ANGLE PROJECTION 
		M4A1	
		M16A4	
		M16A3	
MECHANICAL PROPERTIES		M16A2	THIRD ANGLE PROJECTION
	YP		
	TS	F8448522	
	EL2	F8448601	
RA		9390001	M4
	BH		
	RH		
NEXT ASSY		USED ON	APPLICATION

CONTRACT NUMBER	
CONTRACTOR	
DRAWN BY B NICEWANNER	DATE(YEAR-MO-DA) 1999-04-27
CHECKER S. GALL - ESERV	ENGINEER J. WINDHAM
ENGINEER L. KO	QUALITY ENGINEER L. CICHUCKI
DRAWING APPROVAL L. BRUNTON 2001-08-22	
DESIGN APPROVAL R. ELBE 2001-08-22	

DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS		
PIN, TAPER, FRONT SIGHT		
SIZE C	CAGE CODE 19204	DWG NO. 8448575
SCALE 5/1	UNIT WT.	SHEET 1 OF 1



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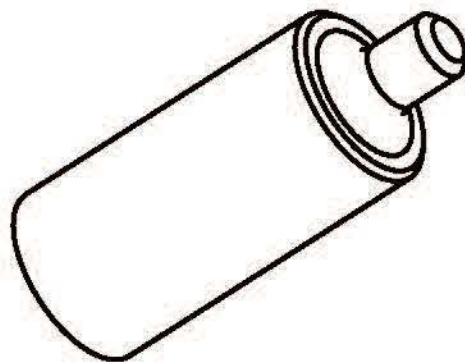
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	C	NOR W6S0085 / 1986-07-24	1989-03-14	TT
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	RR/SR
N/A	E	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	AJL/SR
N/A	F	NOR G3S3116 / 1993-11-30	1994-03-17	TT
-	G	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	H	NOR L06S5166 / 2006-04-28	2006-05-16	BMG
B	J	NOR L07S3072 / 2007-08-06	2007-08-20	BMG

NOTES

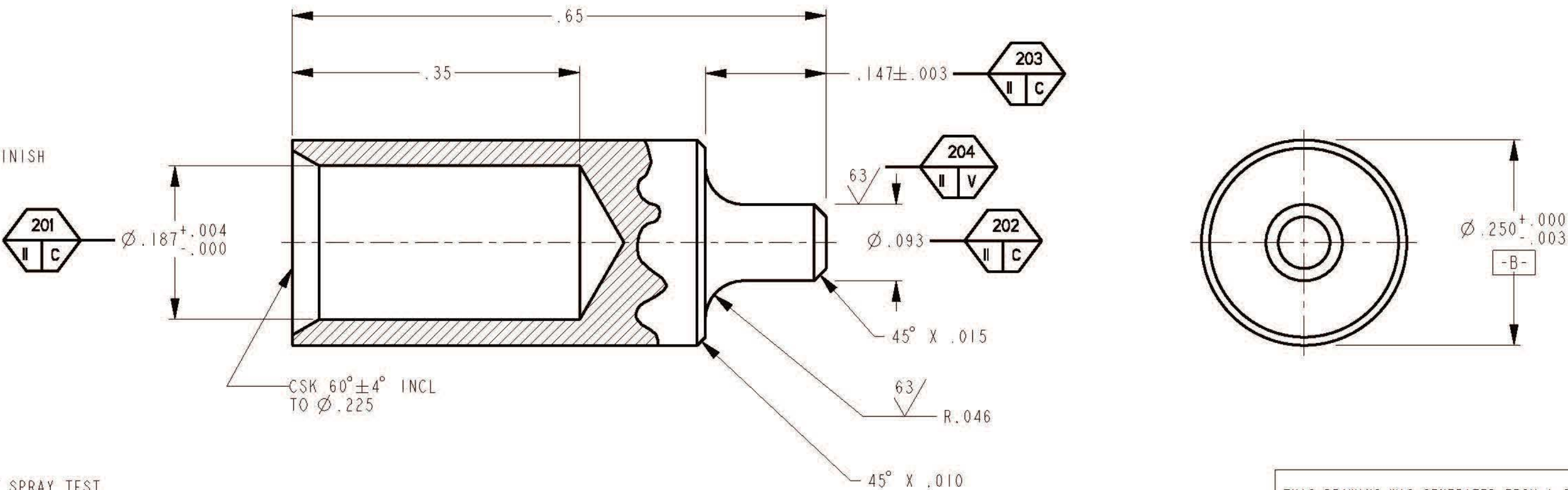
- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 4130, 4140, OR 4340  
PER ATSM A 108 OR ASTM A 322.
- SURFACE FINISH: 125 / EXCEPT AS NOTED.
- ALL DIAMETERS  $\pm .006$  B.
- BREAK EDGES .010 MAX EXCEPT AS NOTED.
- PROTECTIVE FINISH: FINISH 5.3.1.2  
OF MIL-STD-171.
- HARDNESS: ROCKWELL 15N 72.5 TO 76  
OR EQUIVALENT.
- QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.

- 205 MISSING OR DEFECTIVE PROTECTIVE FINISH
- 206 WORKMANSHIP
- 501 HARDNESS
- 502 SALT SPRAY TEST
- 503 COATING WEIGHT
- 504 SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST



ISOMETRIC VIEW  
SCALE 4.000

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ROCK ISLAND, IL; 1993-09-14.



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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
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PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448582

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
		TOLERANCE ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY B. NICEWANNER		DATE(YEAR-MO-DA) 1970-04-27	
		THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM	
				ENGINEER L. KO		QUALITY ENGINEER E. SESE	
				DRAWING APPROVAL L. BRUNTON		2002-08-05	
				DESIGN APPROVAL R. ELBE		2002-08-05	
						SIZE C	
						CAGE CODE 19204	
						DWG NO. 8448582	
						SCALE 8.000	
						UNIT WT. 0.004490	
						SHEET 1 OF 1	



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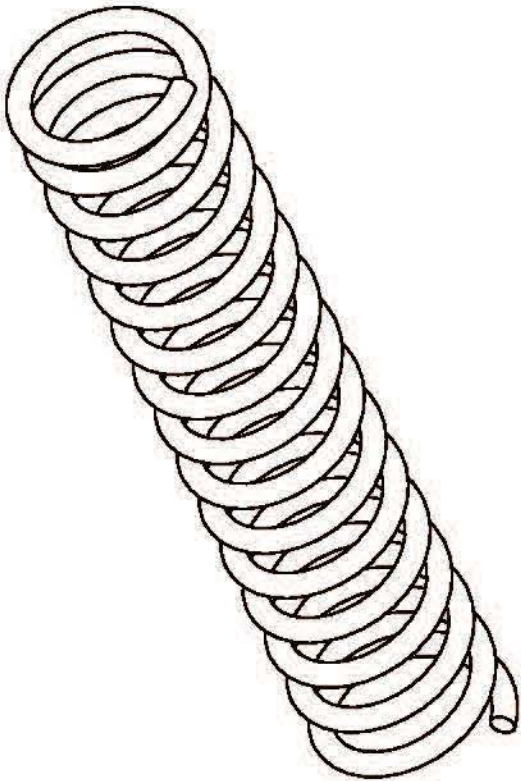
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DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900°F±10° FOR ONE HOUR. AIR COOL.
- BREAK SHARP EDGES .003±.012.
- FINAL PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.
- HARDNESS: 15N 84.5 MIN.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



SCALE 6.000

SPRING, HELICAL, COMPRESSION	
WIRE DIAMETER	.0220±.0005
COIL DIAMETER	.180±.003
TOTAL COILS	14 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .490	3.0 LB ± .3 LB
LOAD AT COMPRESSED SETTING OF	-----
SPRING RATE	-----
SOLID LENGTH	.335 MAX
TYPE OF ENDS	CLOSED
FREE LENGTH	.940 REF
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572,	

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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
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PART NO. 8448583

PMIC			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±.005  THIRD ANGLE PROJECTION 	CONTRACT NUMBER		DESIGN ACTIVITY		
		M4A1		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS		
	MECHANICAL PROPERTIES	M4		DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1970-04-27	SPRING, BUFFER RETAINER		
	YP			CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM			
	TS	9390011		ENGINEER L. KO	QUALITY ENGINEER E. SESE			
EL2		C8448605	M16A3	DRAWING APPROVAL L. BRUNTON 2002-08-05		SIZE C	CAGE CODE 19204	DWG NO. 8448583
RA		C8448579	M16A1	DESIGN APPROVAL R. ELBE 2002-08-05		SCALE 3	UNIT WT. 0.001	SHEET 1 OF 1
BH		NEXT ASSY	USED ON					
RH		APPLICATION						

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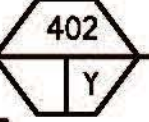

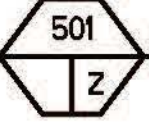
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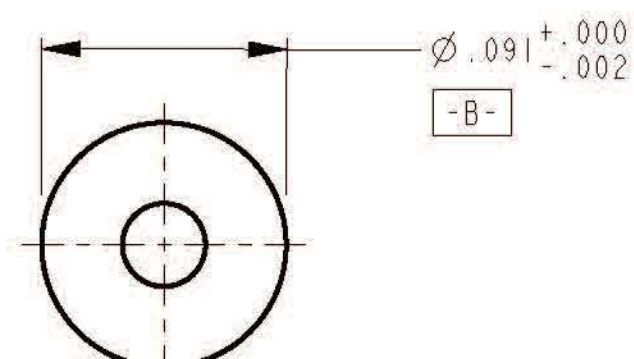
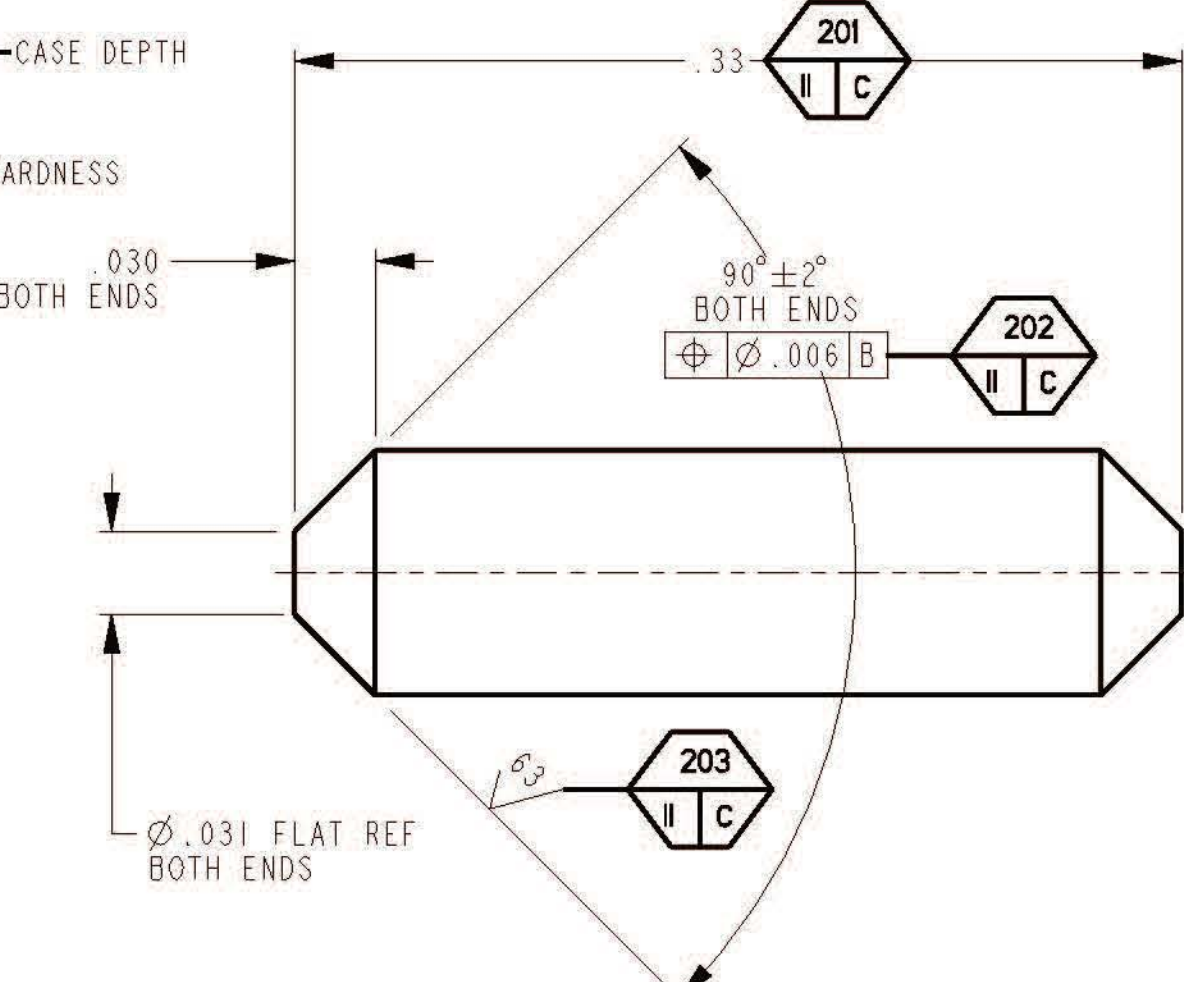
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REVISIONS

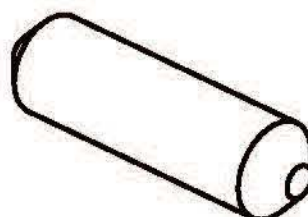
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR G0S3002 / 1990-01-31	1990-04-19	
N/A	E	NOR G0S2018 / 1991-07-08	1991-10-11	RR/SR
N/A	F	NOR G2S3112 / 1992-12-17	1993-02-24	
N/A	G	NOR G4S3064 / 1994-06-20	1994-07-27	RV/SR
-	H	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	J	NOR L2S3072 / 2002-12-18	2003-03-18	RJC
B	K	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
C	L	NOR L07S3072 / 2007-08-06	2007-08-20	BMG

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 1015 TO 1018 OR AISI 1212, 1213, OR 1215 PER ASTM A 108.  MATERIAL
- DIMENSIONAL LIMITS APPLY AFTER PROTECTIVE FINISH.
- SURFACE FINISH: 125/ EXCEPT AS NOTED.
- BREAK EDGES .005 MAX EXCEPT AS NOTED.
- PROTECTIVE FINISH: FINISH 1.1.2.1 OF MIL-STD-171. DO NOT BAKE FOR EMBRITTLEMENT RELIEF.  PROTECTIVE FINISH
- CARBURIZE TO .010<sup>+</sup>.005<sub>-.000</sub> EFFECTIVE CASE DEPTH.  CASE DEPTH
- SUGGESTED HEAT TREATMENT: QUENCH AND TEMPER. HARDNESS SHALL BE ROCKWELL 15N 89 TO 91 OR EQUIVALENT.  HARDNESS
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



-  MISSING OR DEFECTIVE PROTECTIVE FINISH
-  WORKMANSHIP



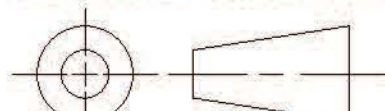
ISOMETRIC VIEW  
SCALE 6.000

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PART NO. 8448585

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
			M231	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
			M4A1								
MECHANICAL PROPERTIES			M4	TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY		DATE(YEAR-MO-DA)		DETENT, TAKEDOWN P.I.N.	
						B. NICEWANNER		1970-04-27			
YP		9390011	M16A4	THIRD ANGLE PROJECTION 		CHECKER		ENGINEER			
TS		9327230	M16A3			J. MACON - ESERV		J. WINDHAM			
EL2		8448604	M16A2			ENGINEER		QUALITY ENGINEER			
RA						L. KO		E. SESE			
BH		8448578	M16A1			DRAWING APPROVAL		L. BRUNTON		2002-08-05	
		NEXT ASSY		USED ON		DESIGN APPROVAL		R. ELBE		2002-08-05	
RH		APPLICATION				MATL ENGR		MODELED BY		B. NICEWANNER	



NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

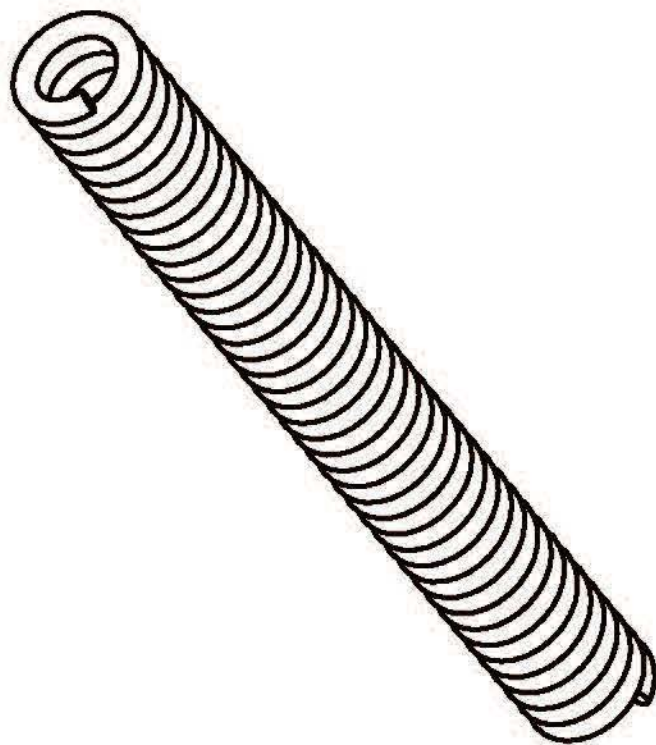
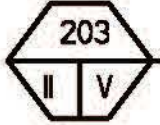
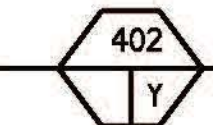
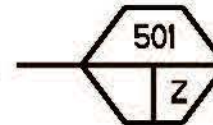
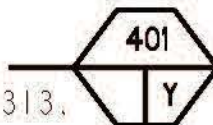
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NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STAINLESS STEEL SPRING WIRE, TYPE 631 (17-7PH), COLD-DRAWN PER ASTM A 313.
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900° F ± 10° F FOR ONE HOUR. AIR COOL. THE HEAT TREATMENT METHODS INDICATED HEREON ARE FOR GUIDANCE ONLY, EXCEPT THAT TIME AT TEMPERATURE SHALL NOT BE REDUCED BELOW THAT SPECIFIED. HARDNESS: ROCKWELL 15N 84.5 MIN OR EQUIVALENT.
- BREAK EDGES .003<sup>+</sup>.012<sub>-.000</sub> EXCEPT AS NOTED.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.
- PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.



ISOMETRIC VIEW

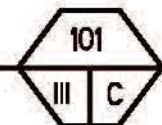
DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY; ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	B	REPLACES REV A W/ CHANGE SEE ER HQR 20778	1972-10-06	LB
N/A	C	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	D	NOR W2S0011 / 1982-04-13 (ECP W2S0034 / 1982-07-15) (ECP W3S3120 / 1983-07-07)	1983-11-04	HW
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR/SR
-	F	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	G	NOR L07S3063 / 2007-06-26	2007-07-09	BMG

SPRING DATA

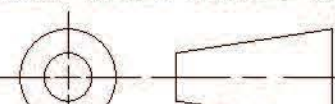
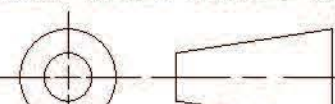
WIRE DIAMETER	.0160±.0005
COIL DIAMETER (O.D.)	.088±.003
TOTAL COILS	40 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .750	2.20 LBS ± 0.22 LBS
LOAD AT COMPRESSED LENGTH OF -	-
SPRING RATE	-
SOLID LENGTH	.670 MAX
TYPE OF ENDS	CLOSED
FREE LENGTH AFTER SETTING	1.10 REF
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B PER MIL-S-13572	



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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448586

PMIC		9327230	M231	DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005	CONTRACT NUMBER		DESIGN ACTIVITY  US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
		12972690	M4A1		CONTRACTOR						
		9390011	M4			DRAWN BY J. KREIDER	DATE(YEAR-MO-DA) 1970-04-27	SPRING, DETENT, TAKEDOWN PIN			
		12598101	M16A4			CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM				
12012001	M16A3	ENGINEER L. KO	QUALITY ENGINEER E. SESE								
9349100	M16A2	DRAWING APPROVAL L. BRUNTON 2002-08-05									
YP		8448578	M16A1		DESIGN APPROVAL		SIZE C	CAGE CODE 19204	DWG NO. 8448586		
TS		8448604	M16		L. BRUNTON 2002-08-05						
EL2		NEXT ASSY			USED ON						
RA		APPLICATION									
BH				MATL ENGR	MODELED BY J. KREIDER	R. ELBE 2002-08-05	SCALE 8.000	UNIT WT. 0.000518	SHEET 1 OF 1		
RH											



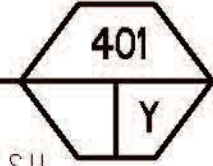
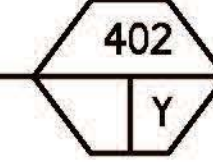
NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

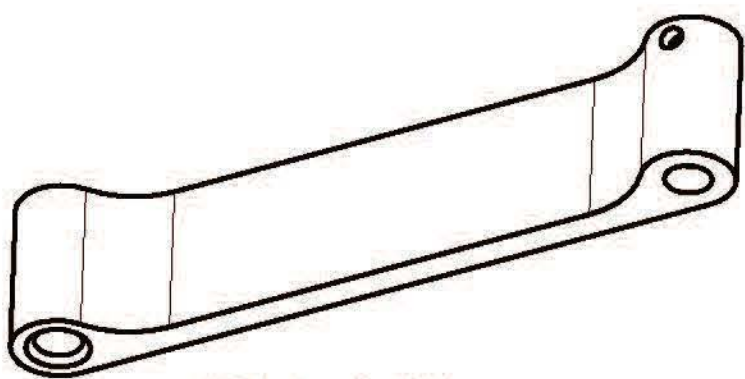
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DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: ALUMINUM ALLOY, 7075-T6, SPEC ASTM B221.  MATERIAL (CTR)
3. DIMENSIONAL LIMITS APPLY BEFORE FINAL PROTECTIVE FINISH.
4. SURFACE FINISH 125/✓
5. SANDBLAST PRIOR TO FINISH TO PRODUCE NONREFLECTIVE MATTE SURFACE AFTER FINISH.
6. FINISH MIL-A-8625 TYPE III, CLASS 2, FILM THICKNESS .0010 ±.0002. FINISH SHALL BE LUSTERLESS (FLAT) APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.  PROTECTIVE COATING
7. BREAK SHARP EDGES .005+.010.
8. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

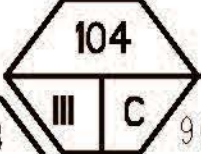
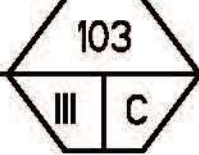


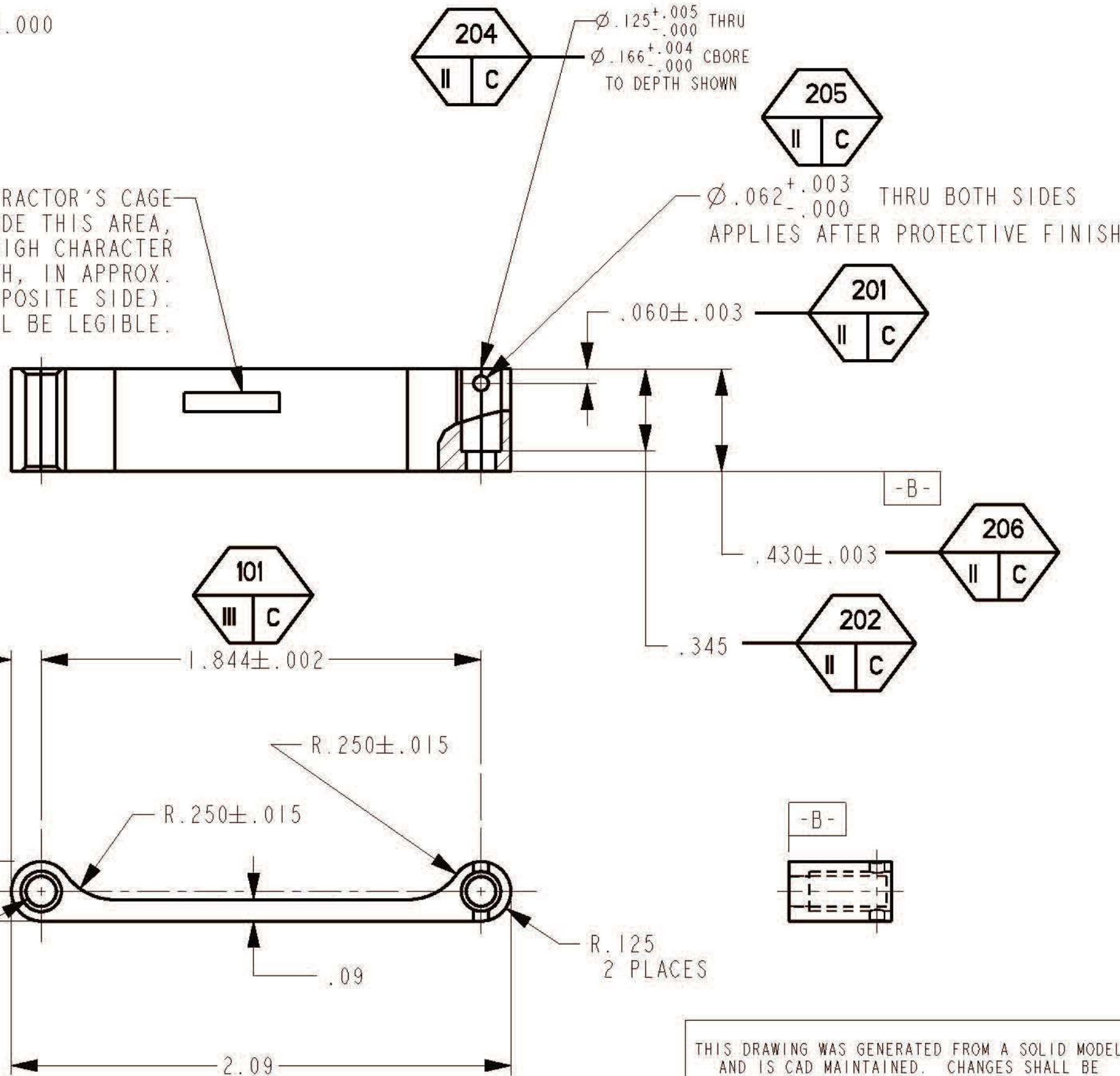
SCALE 2.000

REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	RR
N/A	E	NOR G6S2008 / 1996-03-28	1996-05-23	RLV
N/A	F	NOR LOS2048 / 2001-03-13	2001-04-06	RLV
-	G	NOR L2S3033 / 2002-07-22	2002-08-05	JJW
A	H	NOR L09S5175 / 2010-01-06	2010-01-13	BMG

APPLY PRIME CONTRACTOR'S CAGE CODE THIS AREA, .062 ±.010 HIGH CHARACTER X .015 MAX DEPTH, IN APPROX. POSITION SHOWN (OPPOSITE SIDE). CHARACTER SHALL BE LEGIBLE.

-  MISSING OR DEFECTIVE COATING
-  WORKMANSHIP

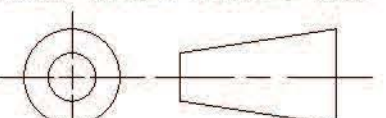
-  90° ±4° C SINK BOTH SIDES TO Ø.17
-  .002 B



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US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448588

PMIC					DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY					
					UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
MECHANICAL PROPERTIES				M4A1	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27		GUARD, TRIGGER			
				M4										
			8448587	M16A4										
			B8448587	M16A3										
YP					THIRD ANGLE PROJECTION		CHECKER K. JOHNSON-ESERV		ENGINEER J. WINDHAM					
TS							ENGINEER L. KO		QUALITY ENGINEER E. SESE					
EL2							DRAWING APPROVAL L. BRUNTON		2002-07-22					
RA							DESIGN APPROVAL							
BH							MATL ENGR		MODELED BY G. STRAHL		R. ELBE		2002-07-22	
RH					APPLICATION						SIZE C		CAGE CODE 19204	DWG NO. 8448588
											SCALE 2/1		UNIT WT. 0.009	SHEET 1 OF 1



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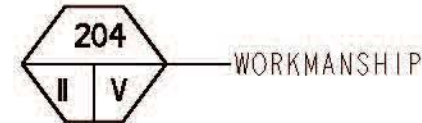
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NOTES

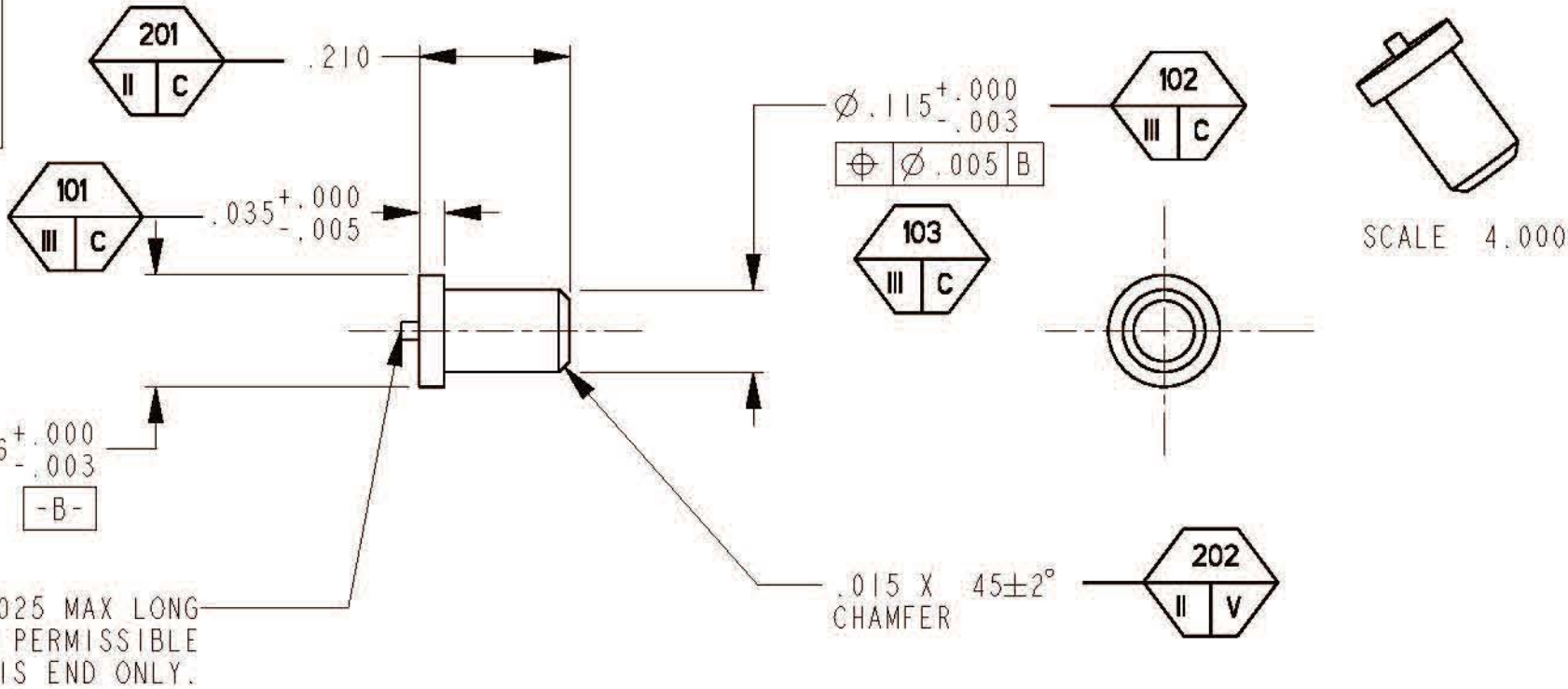
- 1. MIL-W-13855 APPLIES.
- 2. MATERIAL: WIRE, STEEL CORROSION RESISTING, FREE MACHINING STOCK, CLASS 303, ANNEALED, COLD DRAWN, SPEC ASTM A555, A581 AND A582.
- 3. SURFACE FINISH 125/
- 4. BREAK ALL SHARP EDGES .005+.005.
- 5. FINAL PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.
- 6. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS3074 / 1991-06-26	1991-08-21	PF
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR
N/A	F	NOR G3S3081 / 1993-08-31	1993-10-26	DR
-	G	NOR L2S3033 / 2002-07-22	2002-08-05	JJW



CURRENT DESIGN ACTIVITY CAGE CODE 19200  
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PART NO. 8448589

PMIC			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005  THIRD ANGLE PROJECTION 	CONTRACT NUMBER  CONTRACTOR  DRAWN BY G. STRAHL DATE (YEAR-MO-DA) 1970-04-27 CHECKER K. JOHNSON-ESERV ENGINEER J. WINDHAM ENGINEER L. KO QUALITY ENGINEER E. SESE DRAWING APPROVAL L. BRUNTON 2002-07-22 DESIGN APPROVAL R. ELBE 2002-07-22	DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS		
		M4A1			PLUNGER, TRIGGER GUARD		
		M4					
	8448587	MI6A4					
	8448587	MI6A3					
YP							
TS							
EL2							
RA							
BH							
RH							
NEXT ASSY			USED ON	SCALE 4/1			
APPLICATION			MATL ENGR	MODELED BY G. STRAHL	UNIT WT 0.001	SHEET 1 OF 1	



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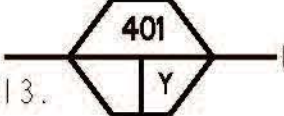
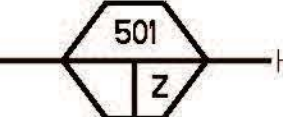

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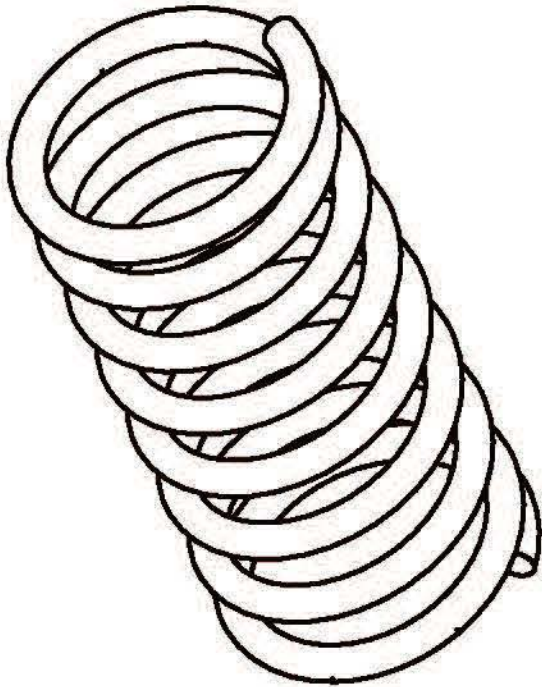
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	C	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	D	NOR W250011 / 1982-04-13 (ECP W250034 / 1982-07-15) (ECP W353120 / 1983-07-07)	1983-11-04	HW
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR
-	F	NOR L2S3033 / 2002-07-22	2002-08-05	JJW
A	G	NOR L09S3168 / 2009-11-17	2009-11-18	BMG

NOTES

- MATERIAL: STAINLESS STEEL SPRING WIRE, TYPE 316 (17-7PH), COLD-DRAWN PER ASTM A 313.  MATERIAL
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900° F ± 10° F FOR ONE HOUR. AIR COOL. THE HEAT TREATMENT METHODS INDICATED HEREON ARE FOR GUIDANCE ONLY, EXCEPT THAT TIME AT TEMPERATURE SHALL NOT BE REDUCED BELOW THAT SPECIFIED. HARDNESS: ROCKWELL 15N 84.5 MIN OR EQUIVALENT.  HARDNESS
- MIL-W-13855 APPLIES.
- BREAK EDGES .003<sup>+0.012</sup><sub>-.000</sub> EXCEPT AS NOTED.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.
- PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.  PROTECTIVE FINISH

- 
- MISSING OR DEFECTIVE PROTECTIVE FINISH
- 
- WORKMANSHIP

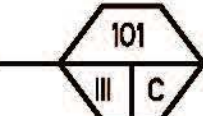
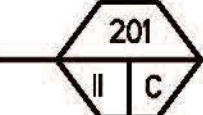


ISOMETRIC VIEW

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SPRING DATA

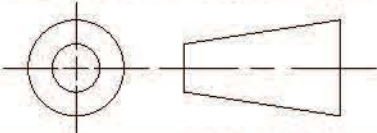
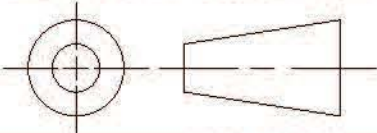
WIRE DIAMETER	.0160±.0005
COIL DIAMETER (O.D.)	.145±.003
FREE LENGTH	.310 REF
TOTAL COILS	6 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .175	1.48 LB ± 0.15 LB
LOAD AT COMPRESSED LENGTH OF -	-
SPRING RATE	-
SOLID LENGTH	.118 MAX
TYPE OF ENDS	CLOSED
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B PER ASI3572	



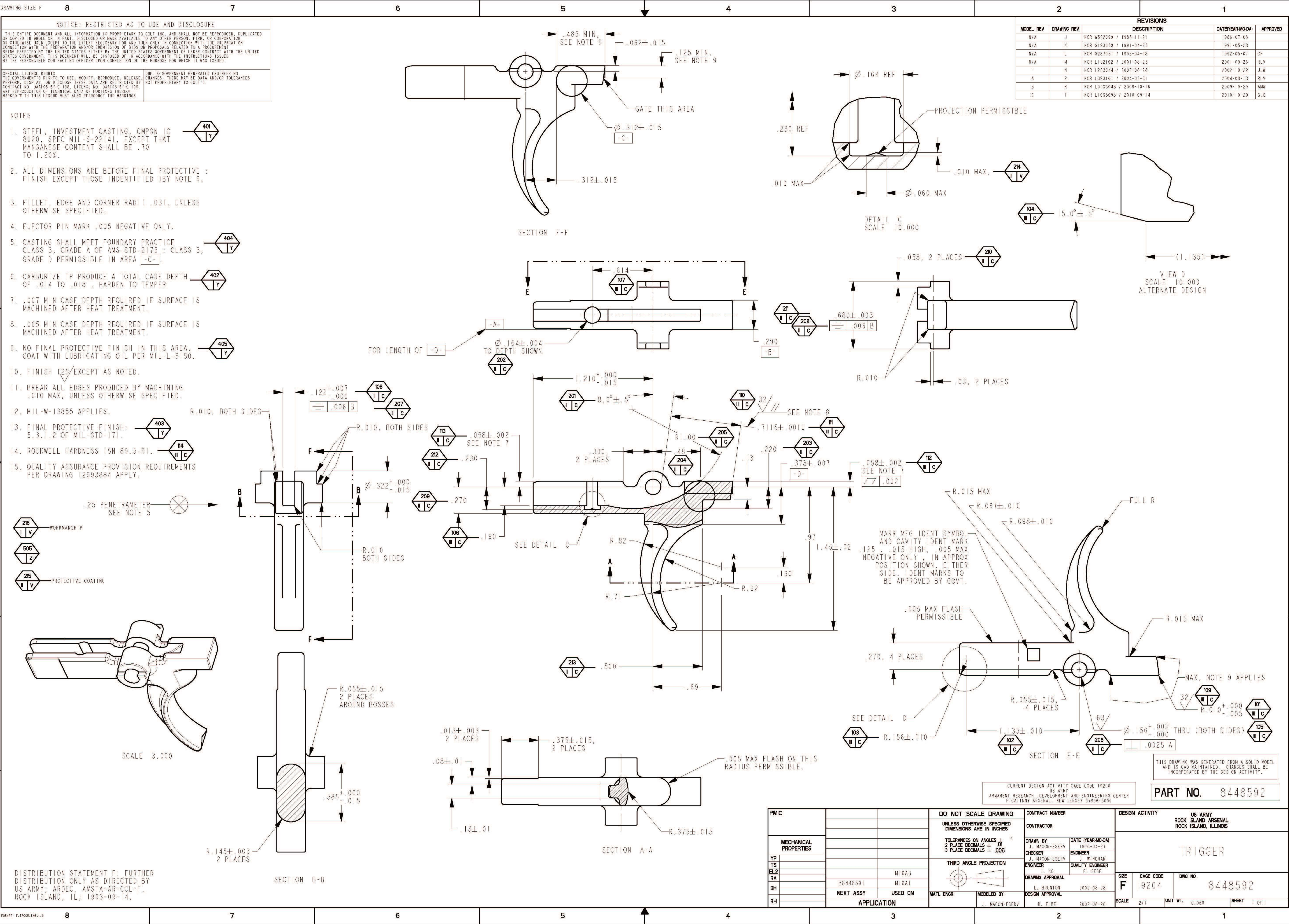
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PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448590

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY									
			M231	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS									
			M4A1														
MECHANICAL PROPERTIES			M4	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005		DRAWN BY B. NICEWANNER		DATE(YEAR-MO-DA) 1970-04-27		SPRING, TRIGGER GUARD							
			M16A4														
YP			M16A3	THIRD ANGLE PROJECTION 		CHECKER K. JOHNSON-ESERV		ENGINEER J. WINDHAM									
TS			M16A2														
EL2		8448587	M16A1			ENGINEER L. KO		QUALITY ENGINEER E. SESE									
RA																	
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY		DRAWING APPROVAL L. BRUNTON 2002-07-22		SIZE C	CAGE CODE 19204	DWG NO. 8448590					
RH		APPLICATION				B. NICEWANNER		DESIGN APPROVAL R. ELBE 2002-07-22		SCALE 12.000	UNIT WT. 0.000189	SHEET 1 OF 1					







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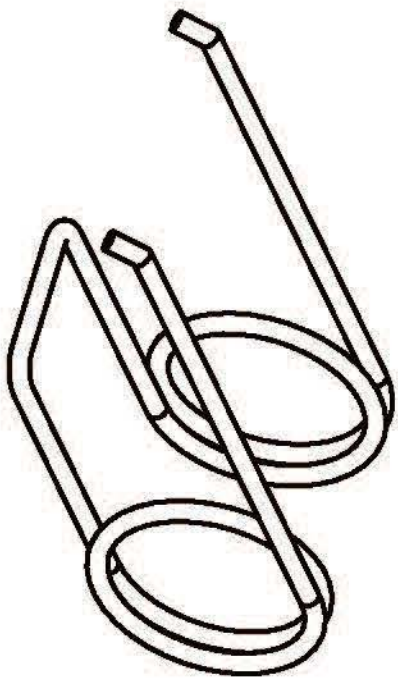
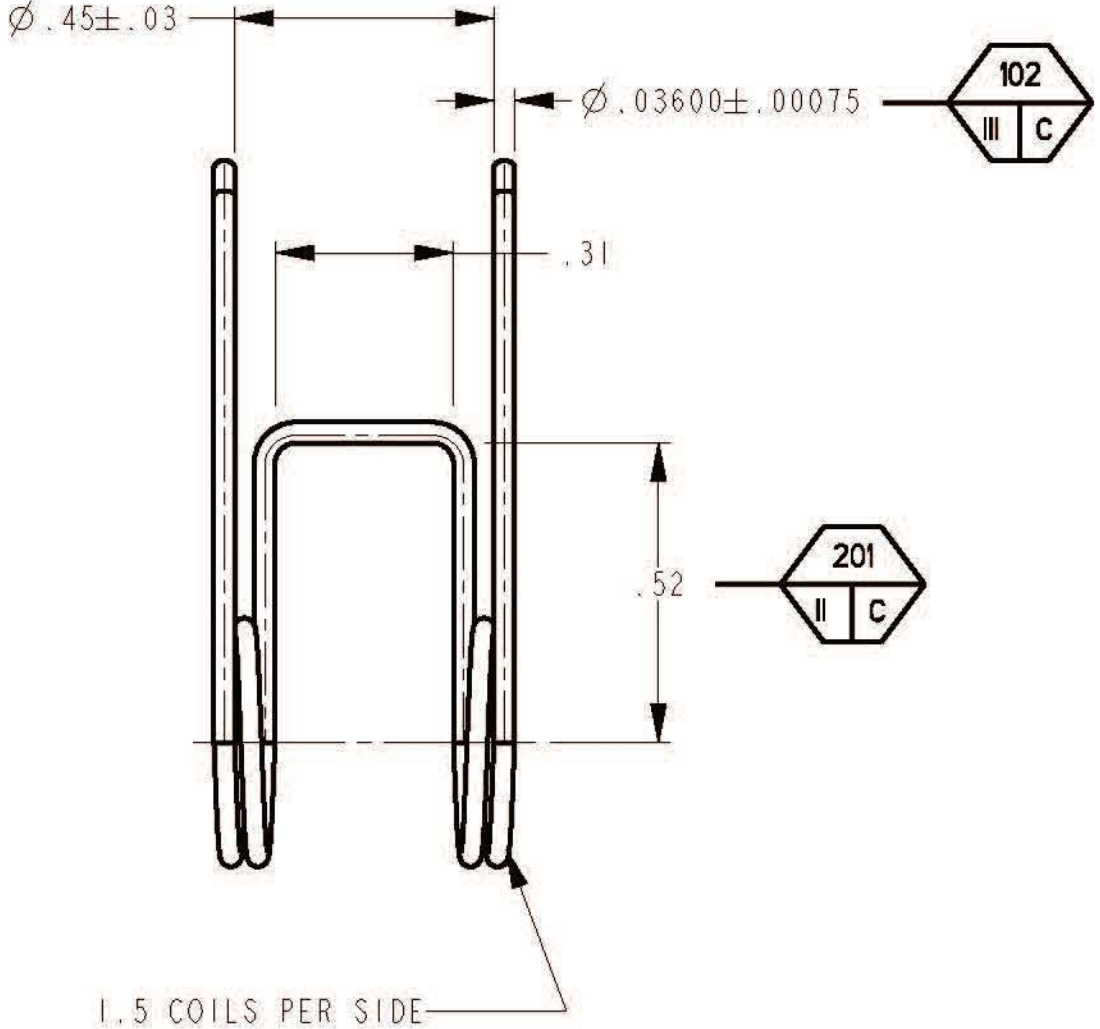
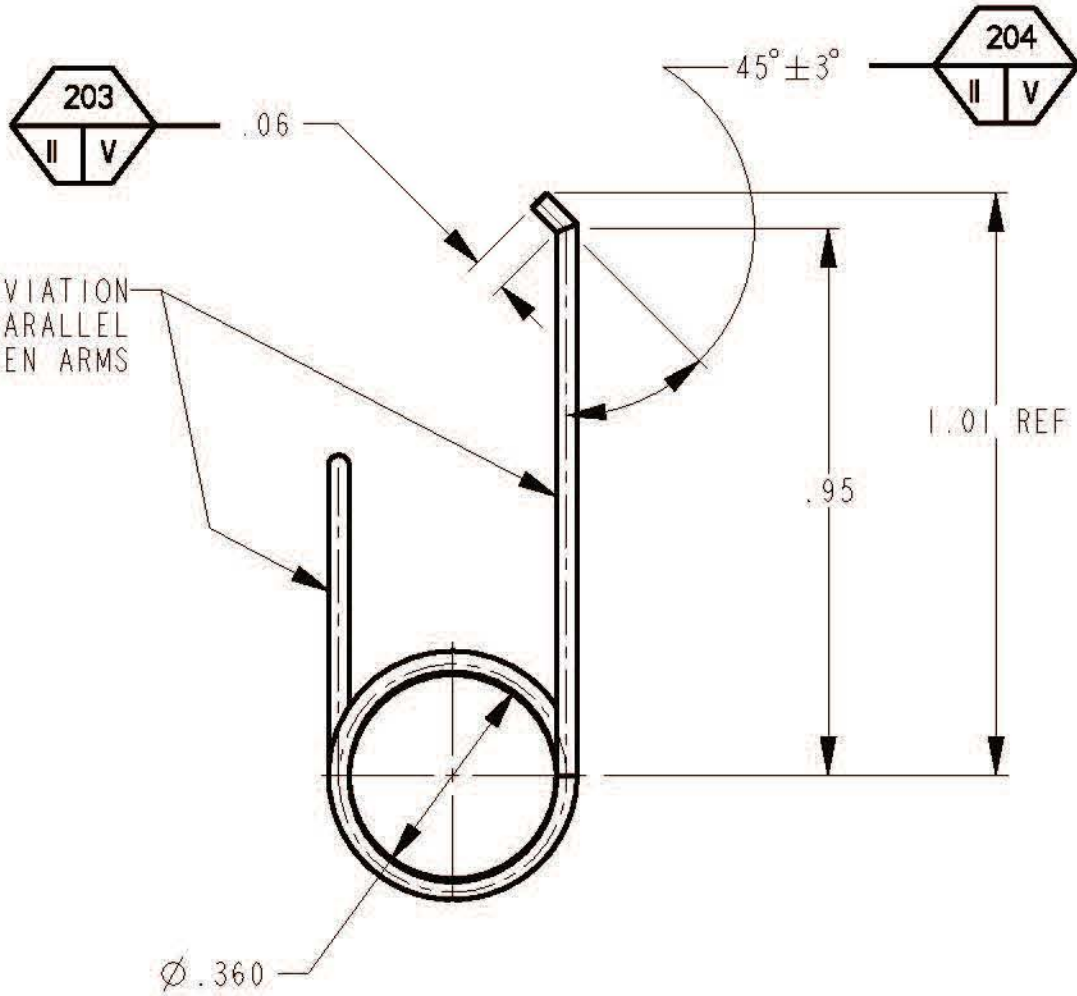
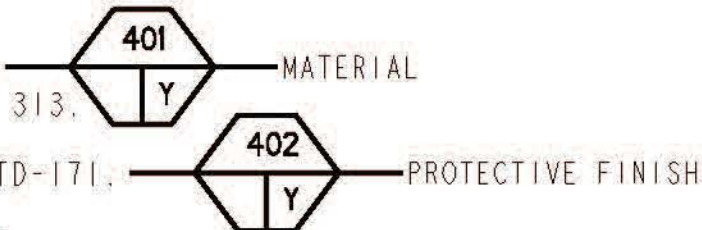
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	REDRAWN FROM COLT'S DRAWING B61657 REVISION B	1970-04-27	
N/A	A	{1} SEE EQ HRD 02197-3	1970-07-15	
N/A	B	{3} SEE EQ HQR 10639	1971-02-20	
N/A	C	{2} SEE ERR HQR 20778	1972-10-06	LB
N/A	D	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	E	NOR W2S0011 / 1982-04-13 (ECP W2S0034 / 1982-07-15)	1983-11-04	HW
N/A	F	NOR G0S3100 / 1990-06-28	1990-08-15	
N/A	G	NOR G1S2018 / 1991-07-08	1991-10-11	RR/SR
-	H	NOR L2S3033 / 2002-07-22	2002-08-05	JJW
A	J	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	K	NOR L07S3050 / 2007-05-22	2007-05-24	BMG
C	L	NOR L08S3013 / 2008-03-25	2008-04-23	BMG

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STAINLESS STEEL SPRING WIRE, TYPE 631 (17-7PH), COLD-DRAWN PER ASTM A 313.
- PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900° F ± 10° F FOR ONE HOUR, AIR COOL. THE HEAT TREATMENT METHODS INDICATED HEREON ARE FOR GUIDANCE ONLY, EXCEPT THAT TIME AT TEMPERATURE SHALL NOT BE REDUCED BELOW THAT SPECIFIED. HARDNESS: ROCKWELL 15N 84.5 MIN OR EQUIVALENT.
- TORQUE REQUIREMENT: 1.50±0.27 IN-LB AT 45° DEFLECTION.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.
- 



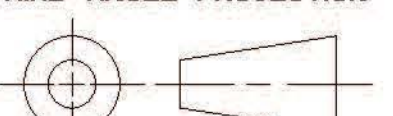
ISOMETRIC VIEW

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448593

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY						
			M4A1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS						
		M4												
MECHANICAL PROPERTIES			M16A4	TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005		DRAWN BY J. LOWDER - ESERV		DATE(YEAR-MO-DA) 1970-04-27		SPRING, TRIGGER				
		9390011	M16A3											CHECKER J. MACON-ESERV
YP				THIRD ANGLE PROJECTION		ENGINEER L. KO		QUALITY ENGINEER E. SESE						
TS		9349115	M231											
EL2		9327230	M16A2	DESIGN APPROVAL										
RA		8448591	M16A1			MATL ENGR		MODELED BY J. LOWDER - ESERV		SIZE		CAGE CODE	DWG NO.	
BH		NEXT ASSY USED ON		C						19204	8448593			
RH		APPLICATION				R. ELBE 2002-07-22		SCALE		3.000	UNIT WT.	0.00208	SHEET	1 OF 1







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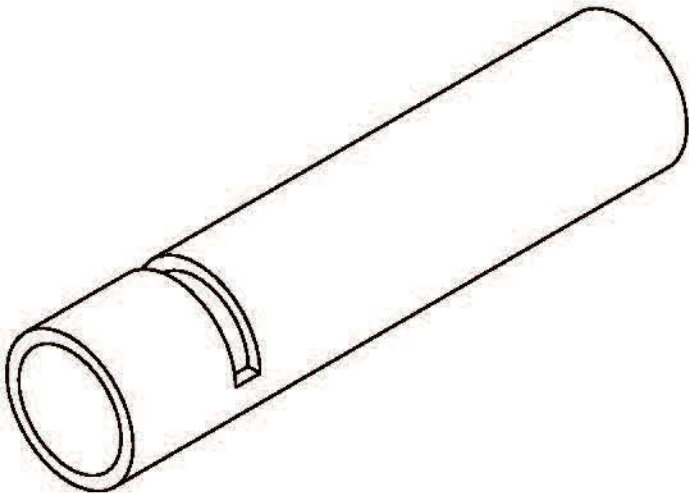
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	C	NOR GIS2018 / 1991-07-08	1991-10-11	RR
N/A	D	NOR G3S3079 / 1993-09-03	1993-10-27	RC
N/A	E	NOR G5S3110 / 1995-11-20	1995-12-21	FET
-	F	NOR L2S3033 / 2002-07-22	2002-08-05	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

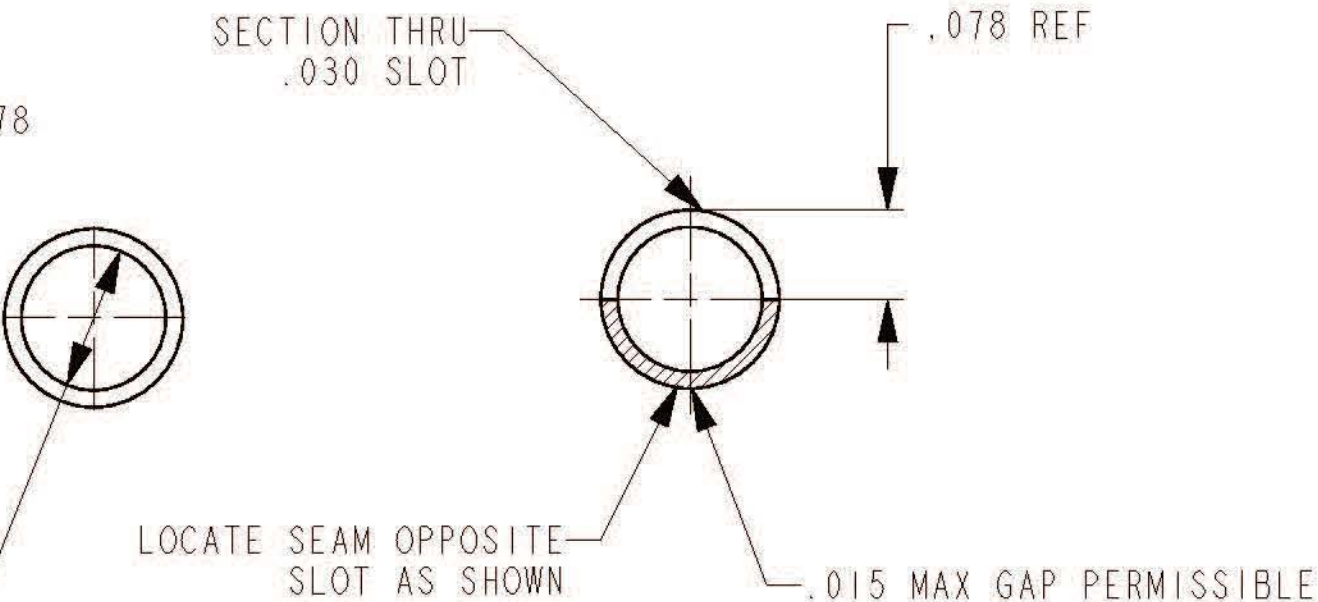
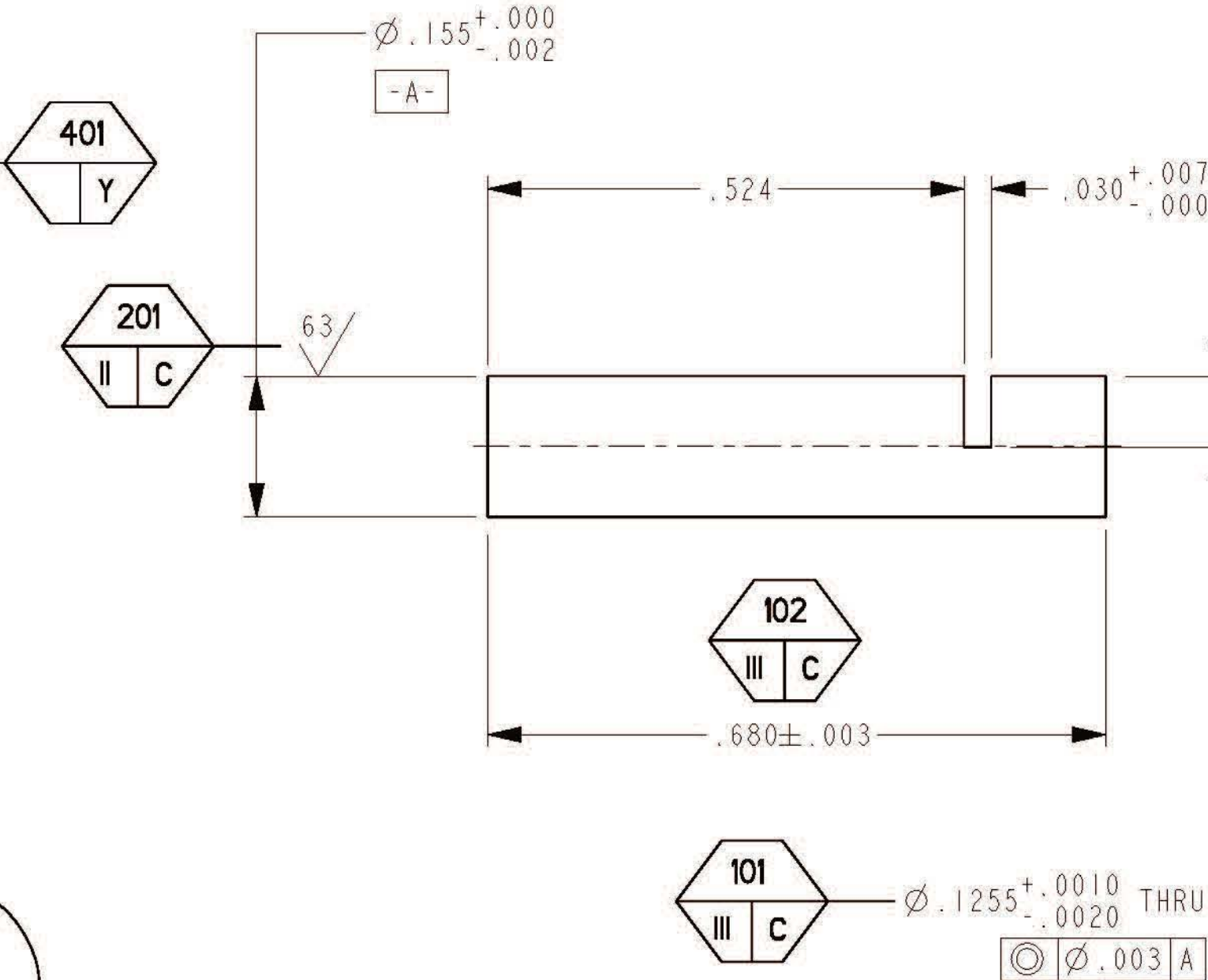
NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, CORROSION RESISTING, FREE MACHINING, TYPE 303, ASTM A484.
- FINAL PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.
- SURFACE FINISH 125/EXCEPT AS NOTED.
- BREAK ALL SHARP EDGES .005 R MAX.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

202 II V WORKMANSHIP



SCALE 6.000



BLANKED AND FORMED  
-ALTERNATIVE METHOD-  
MATERIAL REQUIRED:  
STAINLESS STEEL, AISI  
TYPE 304, STRIP ANNEALED  
(.014 THICK REF)

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PART NO. 8448597

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY		
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS		
	MECHANICAL PROPERTIES		TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005		DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1970-04-27	BUSHING, AUTOMATIC SEAR		
	YP		THIRD ANGLE PROJECTION		CHECKER K. JOHNSON-ESERV	ENGINEER L. KO			
TS		8448595			ENGINEER J. WINDHAM	QUALITY ENGINEER E. SESE	SIZE C	CAGE CODE 19204	DWG NO. 8448597
EL2					DRAWING APPROVAL L. BRUNTON 2002-07-22		SCALE 4/1	UNIT WT. 0.001	SHEET 1 OF 1
RA		B8448595			DESIGN APPROVAL R. ELBE 2002-07-22				
BH			NEXT ASSY						
RH			USED ON						
			APPLICATION						



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REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	C	NOR W2S0011 / 1982-04-13 (ECP W2S0034 / 1982-07-15)	1983-11-04	HW
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	RR
-	E	NOR L2S3033 / 2002-07-22	2002-08-05	JJW

NOTES

1. MIL-W-13855 APPLIES.

2. MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313.

3. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH-900. HOLD AT 900°F±10°F FOR ONE HOUR. AIR COOL.

4. 15° MAX VARIATION PERMISSIBLE FROM 180° SPECIFIED RELATIVE TO OPPOSING ARMS.

5. HARDNESS 15N 84.5 MIN.

6. FINAL PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.

7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
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PART NO. 8448598

PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY					
MECHANICAL PROPERTIES			UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
YP		M4A1	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY		SPRING, AUTOMATIC SEAR					
TS		M4			G. STRAHL							
EL2		M16A4			DATE (YEAR-MO-DA)							
RA		M16A3			1970-04-27							
BH		M16A2	THIRD ANGLE PROJECTION		CHECKER		SIZE					
RH		M16A1			K. JOHNSON-ESERV							
		M16A2			ENGINEER							
		M16A1			L. KO							
		M16A1	MATL ENGR		ENGINEER		CAGE CODE					
		M16A1			J. WINDHAM							
		M16A1			QUALITY ENGINEER							
		M16A1			E. SESE							
		M16A1	MODELED BY		DRAWING APPROVAL		DWG NO.					
		M16A1			L. BRUNTON							
		M16A1			2002-07-22							
		M16A1			DESIGN APPROVAL							
		M16A1	G. STRAHL		R. ELBE		SCALE					
		M16A1			2002-07-22							
		M16A1										
		M16A1										
		M16A1	APPLICATION				UNIT WT					
		M16A1										
		M16A1										
		M16A1										
		M16A1	SHEET				1 OF 1					
		M16A1										
		M16A1										
		M16A1										

FORMAT: B-TACOM-ENG-1.0

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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	B	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	C	NOR G8S3003 / 1988-02-29	1988-09-26	
N/A	D	NOR G1S2018 / 1991-07-08	1991-10-11	RR/SR
N/A	E	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	AJL/SR
-	F	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	H	NOR L04S3044 / 2004-08-24	2004-12-08	RJC
C	J	NOR L09S3027 / 2009-04-17	2009-05-04	BMG

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 4130 OR 4140 PER ASTM A 322.
- PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.
- SURFACE FINISH: 125/ EXCEPT AS NOTED.
- BREAK EDGES .005 MAX.
- HEAT TREATMENT: QUENCH AND TEMPER TO ROCKWELL 15N 72.5 TO 76.0 OR EQUIVALENT.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



MATERIAL



PROTECTIVE FINISH



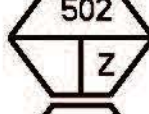
HARDNESS



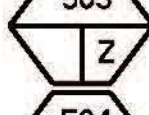
MISSING OR DEFECTIVE PROTECTIVE FINISH



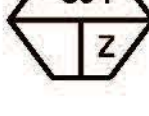
WORKMANSHIP



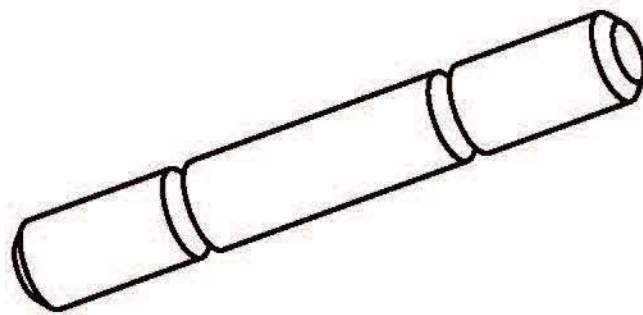
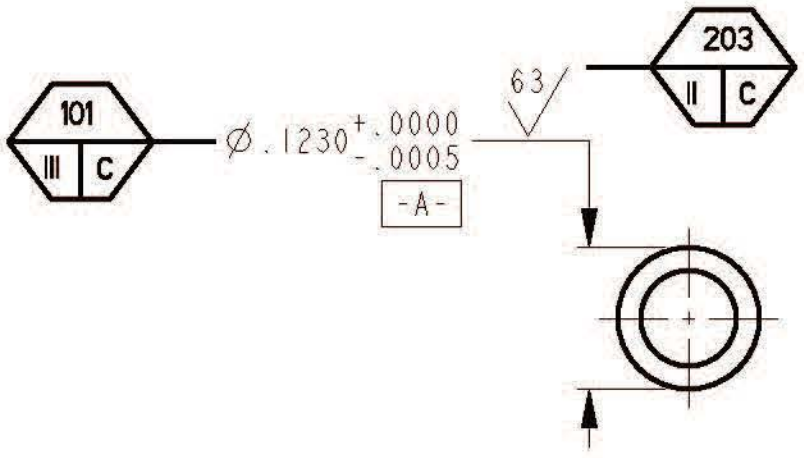
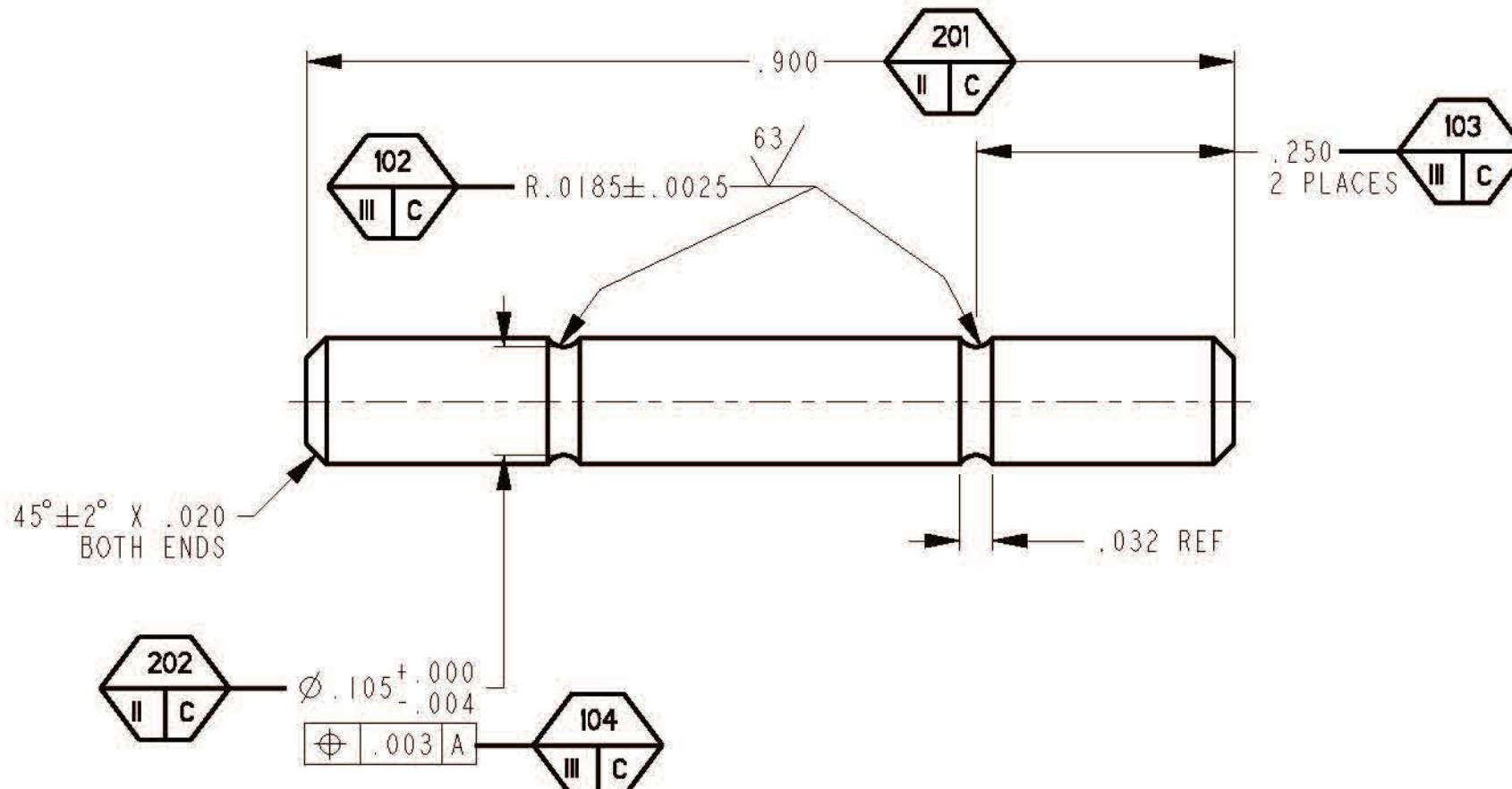
SALT SPRAY TEST



COATING WEIGHT



SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST

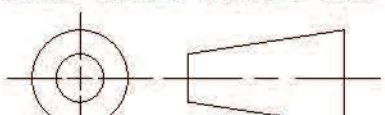
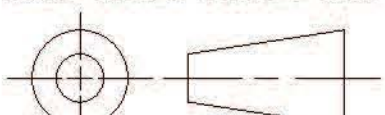


ISOMETRIC VIEW  
SCALE 4.000

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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448599

PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES $\pm 2^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$	CONTRACT NUMBER  CONTRACTOR		DESIGN ACTIVITY  US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
		12972690	M4A1								
		9390011	M4								
		MECHANICAL PROPERTIES					12598101	M16A4			
12012001	M16A3										
9349100	M16A2										
THIRD ANGLE PROJECTION 				DRAWN BY B. NICEWANNER DATE(YEAR-MO-DA) 1970-04-27		ENGINEER J. WINDHAM					
		CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM								
		ENGINEER L. KO	QUALITY ENGINEER E. SESE								
		DRAWING APPROVAL L. BRUNTON 2002-08-05									
YP		8448578	M16A1		DESIGN APPROVAL R. ELBE 2002-08-05		SIZE C	CAGE CODE 19204	DWG NO. 8448599		
TS		8448604	M16								
EL2		NEXT ASSY			USED ON						
RA		APPLICATION									
BH											
RH											
								SCALE 6.000		UNIT WT. 0.00302	SHEET 1 OF 1

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY; ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

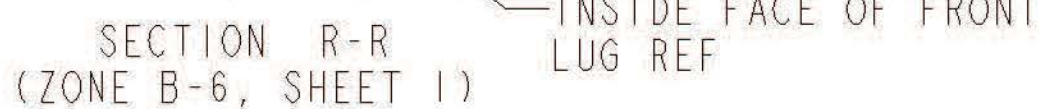


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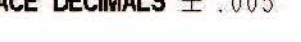


CURRENT DESIGN ACTIVITY CAGE CODE 19200 US ARMY RESEARCH, DEVELOPMENT AND ENGINEERING CENTER ICATINNY ARSENAL, NEW JERSEY 07060-5000		THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.	
		<b>PART NO.</b> 8448608	
<b>CONTRACT NUMBER</b>  <b>CONTRACTOR</b>		<b>DESIGN ACTIVITY</b>  US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
<b>DRAWN BY</b> J. NELSON-ESERV <b>DATE (YEAR-MO-DA)</b> 1970-04-27 <b>CHECKER</b> J. MACON-ESERV <b>ENGINEER</b> J. WINDHAM <b>ENGINEER</b> <b>QUALITY ENGINEER</b> L. KO      E. SESE L. KO		RECEIVER, LOWER	
<b>DRAWING APPROVAL</b>  L. BRUNTON      2002-08-05			
<b>DESIGN APPROVAL</b>  R. ELBE      2002-08-05			
<b>SIZE</b> <b>F</b>		<b>CAGE CODE</b> 19204	<b>DWG NO.</b> 8448608
<b>SCALE</b> 2.000		<b>UNIT WT.</b> 0.492	<b>SHEET</b> 2 OF 2

<p><b>SPECIAL LICENSE RIGHTS</b>          THE GOVERNMENT'S RIGHTS TO USE, MODIFY, REPRODUCE, RELEASE, PERFORM, DISPLAY, OR DISCLOSE THESE DATA ARE RESTRICTED BY CONTRACT NO. DAAFO3-67-C-108, LICENSE NO. DAAFO3-67-C-108. ANY REPRODUCTION OF TECHNICAL DATA OR PORTIONS THEREOF MARKED WITH THIS LEGEND MUST ALSO REPRODUCE THE MARKINGS.</p>	<p><b>DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.</b></p>
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PART NO. 8448608

PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY						
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS						
MECHANICAL PROPERTIES		M4A1	TOLERANCES ON ANGLES ± 1 ° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY D. NELSON-ESERV		DATE (YEAR-MO-DA) 1970-04-27		RECEIVER, LOWER				
		M4			CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM						
		M16A4			ENGINEER L. KO		QUALITY ENGINEER E. SESE						
YP		9390015	M16A3			DRAWING APPROVAL L. BRUNTON		2002-08-05					
TS						DESIGN APPROVAL							
EL2		D8448606	M16A2										
RA		D8448580	M16A1										
BH			NEXT ASSY	USED ON	MATL ENGR	MODELED BY			SIZE <b>F</b>	CAGE CODE 19204	DWG NO. 8448608		
RH			APPLICATION		S. GALL - ESERV		R. ELBE		2002-08-05		SCALE 2.000	UNIT WT. 0.492	SHEET 2 OF 2



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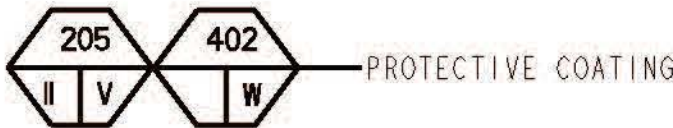
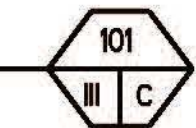
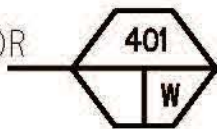
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REVISIONS

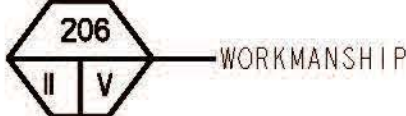
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-	J	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	K	NOR L06S5168 / 2006-06-28	2006-07-28	BMG

NOTES

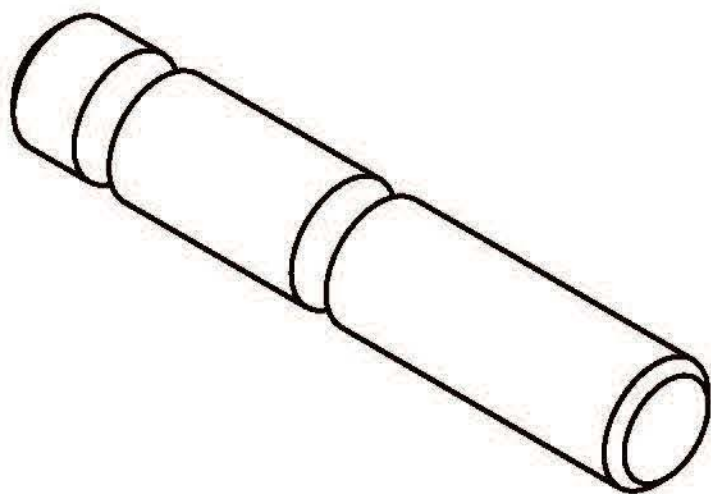
- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, ALLOY, AISI 4130 OR 4140 PER ASTM A 108.
- SURFACE FINISH 125/EXCEPT AS NOTED.
- FINISH 5.3.1.2 OF MIL-STD-171.
- BREAK ALL SHARP EDGES .005 MAX.
- HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS: 15N 72.5-76.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



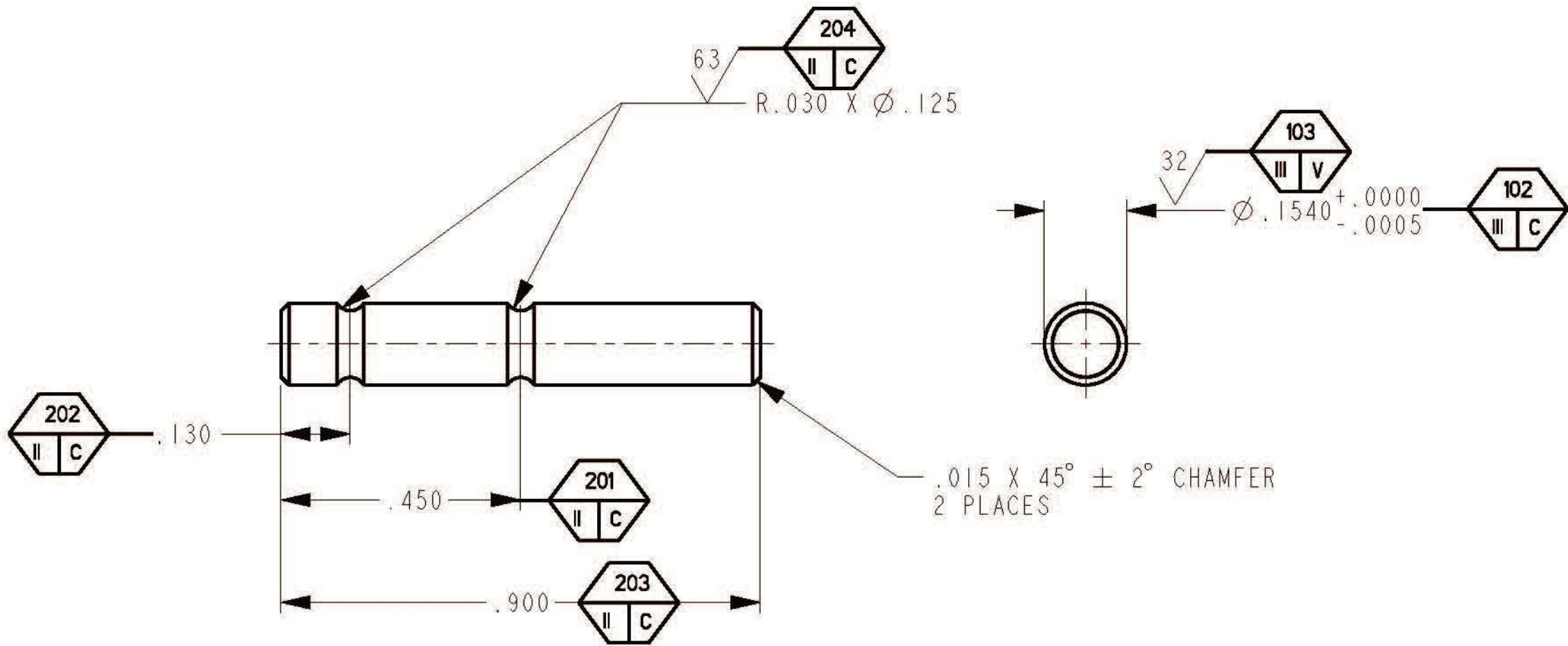
PROTECTIVE COATING



WORKMANSHIP



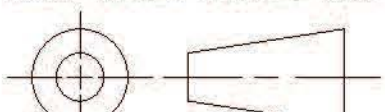
SCALE 5.000



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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448609

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES									
			M4A1	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005									
MECHANICAL PROPERTIES			M4			DRAWN BY T. KULIG - ESERV		DATE(YEAR-MO-DA) 1970-04-27		HAMMER AND TRIGGER PIN			
			M16A4			CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM					
						ENGINEER L. KO		QUALITY ENGINEER E. SESE					
YP				THIRD ANGLE PROJECTION		DRAWING APPROVAL L. BRUNTON		2002-08-05		SIZE C	CAGE CODE 19204	DWG NO. 8448609	
TS		9390011	M16A3			DESIGN APPROVAL R. ELBE		2002-08-05					
EL2		F8448604	M16A2										
RA		F8448578	M16A1										
BH		NEXT ASSY		USED ON		MATL ENGR		MODELED BY J. LOWDER - ESERV					
RH		APPLICATION								SCALE 4 UNIT WT. 0.005 SHEET 1 OF 1			



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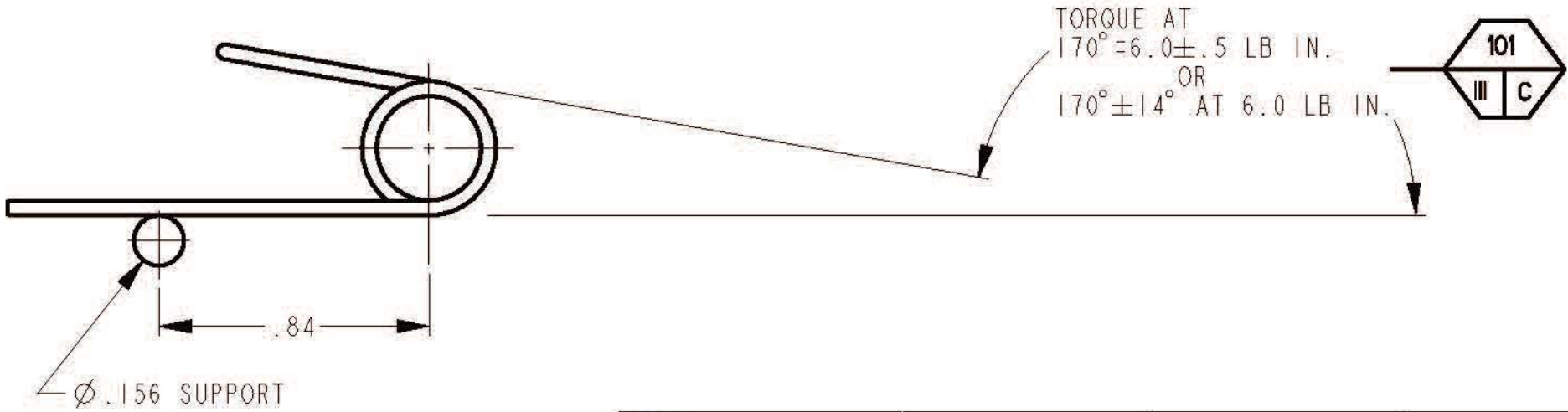
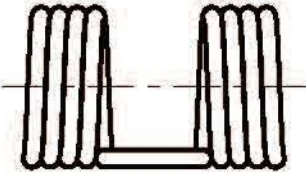
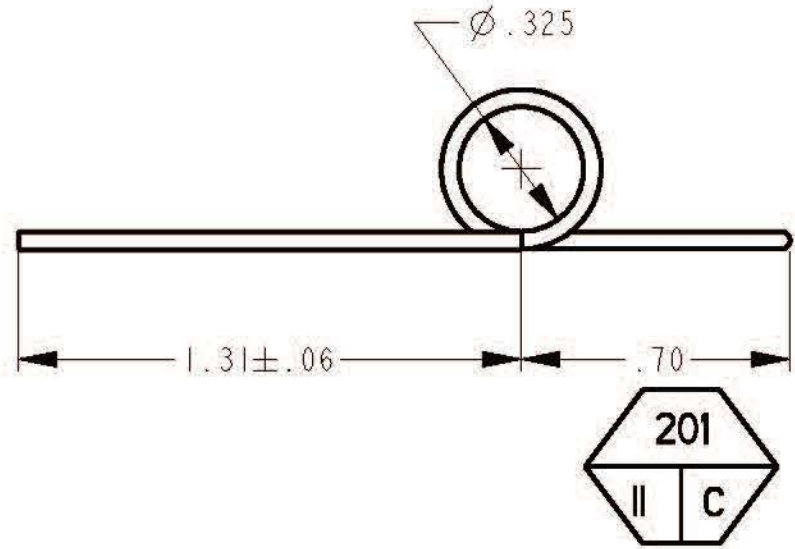
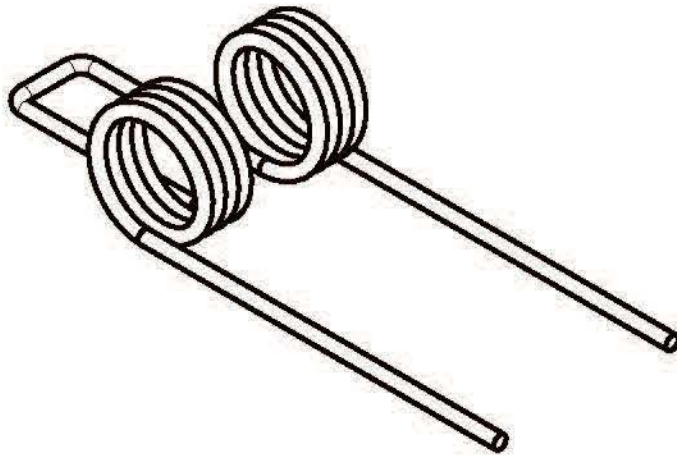
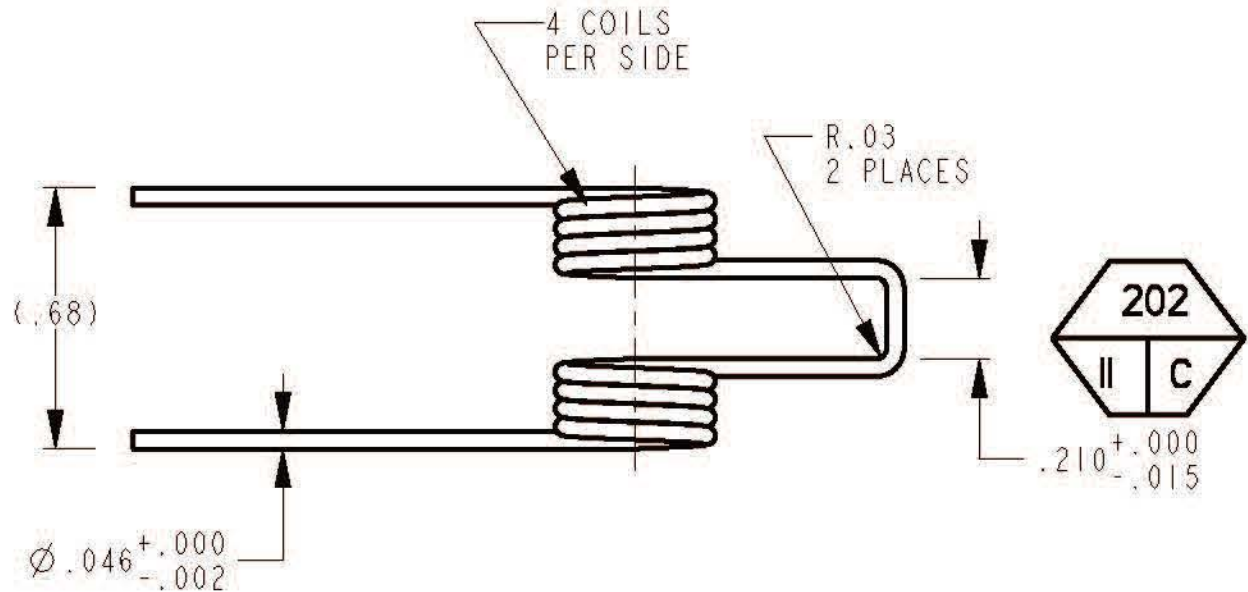
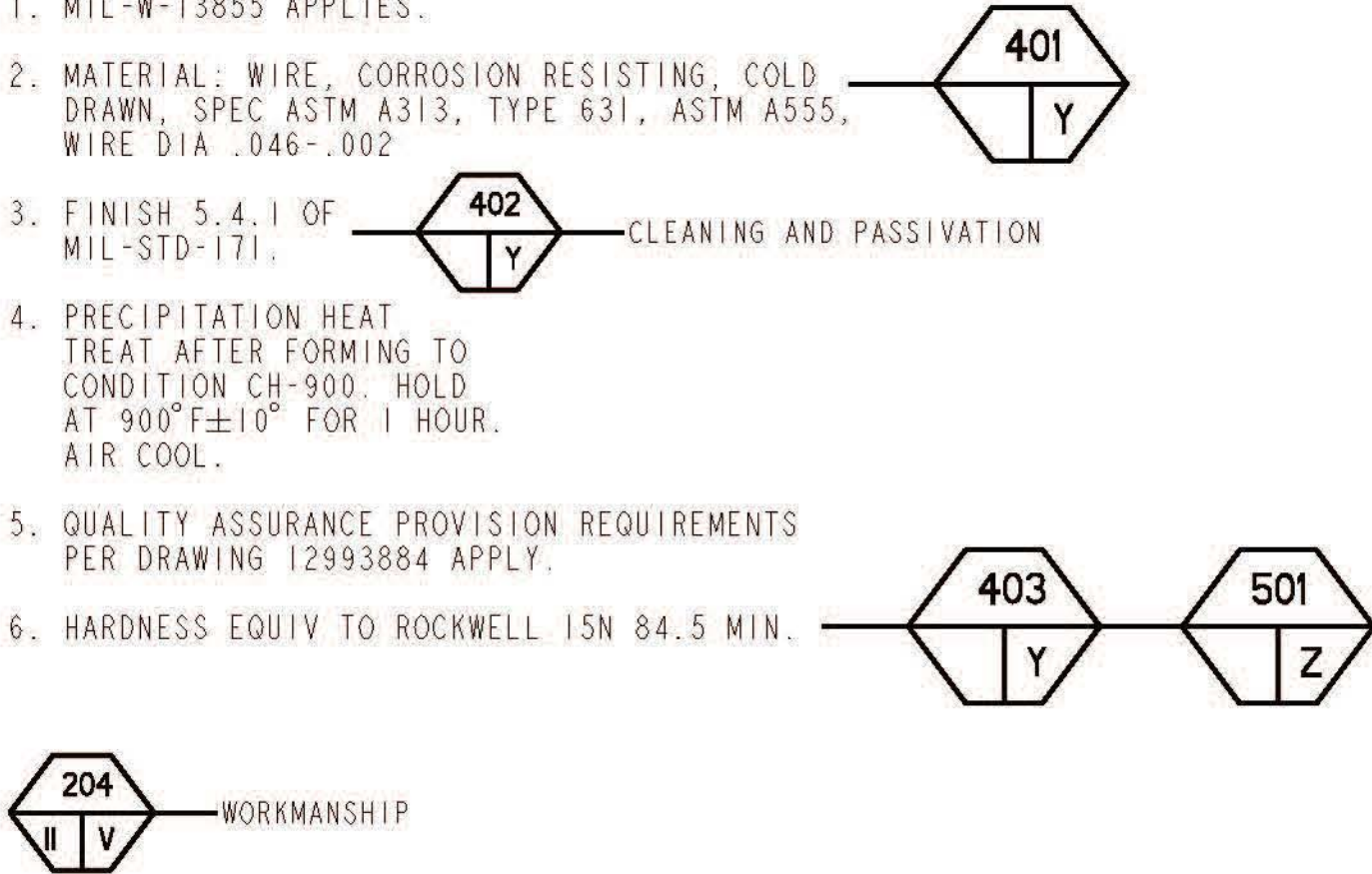
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NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: WIRE, CORROSION RESISTING, COLD DRAWN, SPEC ASTM A313, TYPE 631, ASTM A555, WIRE DIA .046-.002
- FINISH 5.4.1 OF MIL-STD-171, CLEANING AND PASSIVATION
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH-900. HOLD AT 900°F±10° FOR 1 HOUR. AIR COOL.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.
- HARDNESS EQUIV TO ROCKWELL 15N 84.5 MIN.



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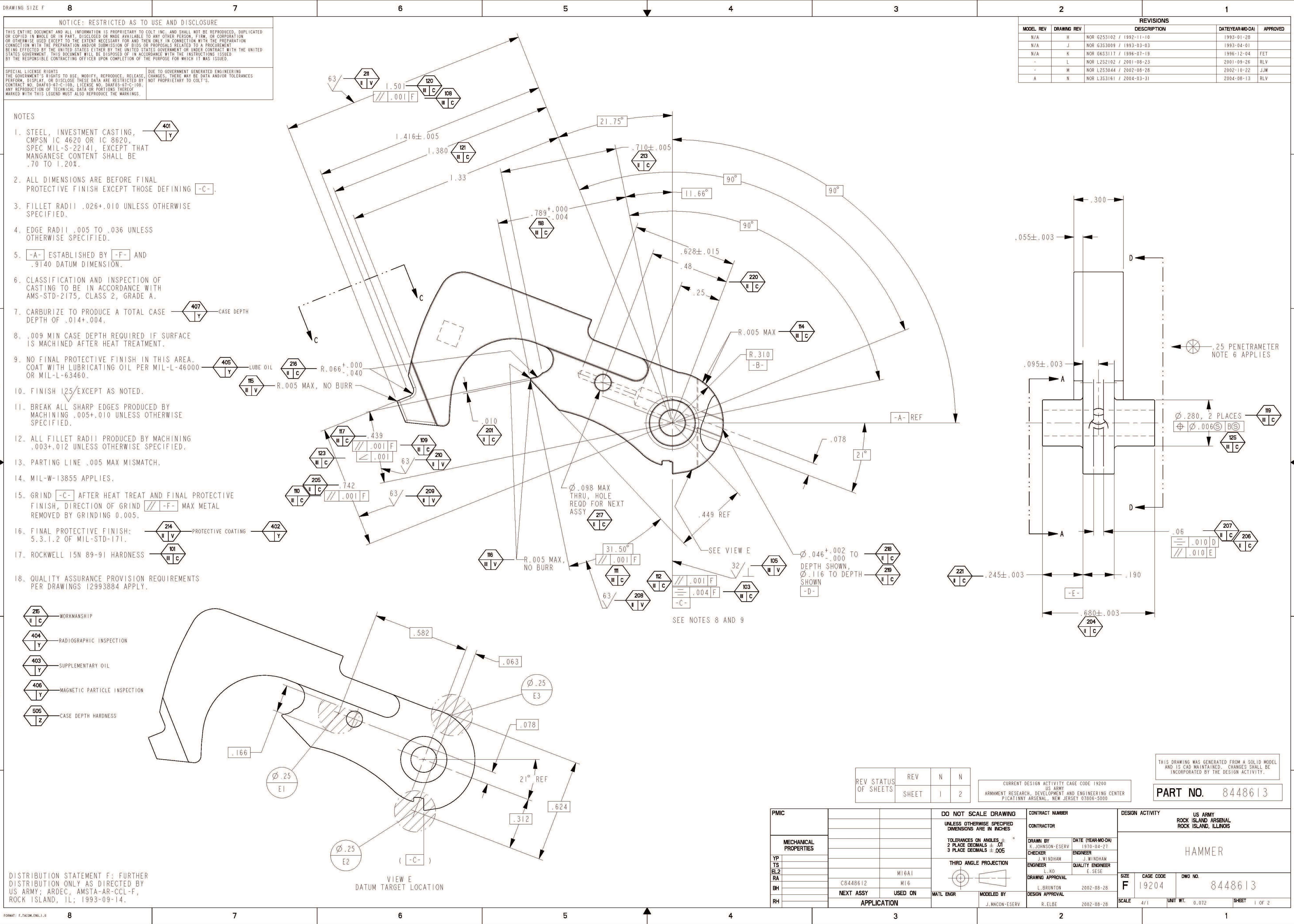
CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
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PART NO. 8448611

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS		
MECHANICAL PROPERTIES		TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005		DRAWN BY J. LOWDER - ESERV		DATE(YEAR-MO-DA) 1970-04-27		
Y P		THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM		
TS		MATERIAL		ENGINEER L. KO		QUALITY ENGINEER E. SESE		
EL2		MODELED BY		DRAWING APPROVAL L. BRUNTON		DATE 2002-08-28		
RA		DESIGN APPROVAL		SCALE C		CAGE CODE 19204		
BH		APPLICATION		UNIT WT. 0.002		DWG NO. 8448611		
RH				SHEET 1 OF 1				











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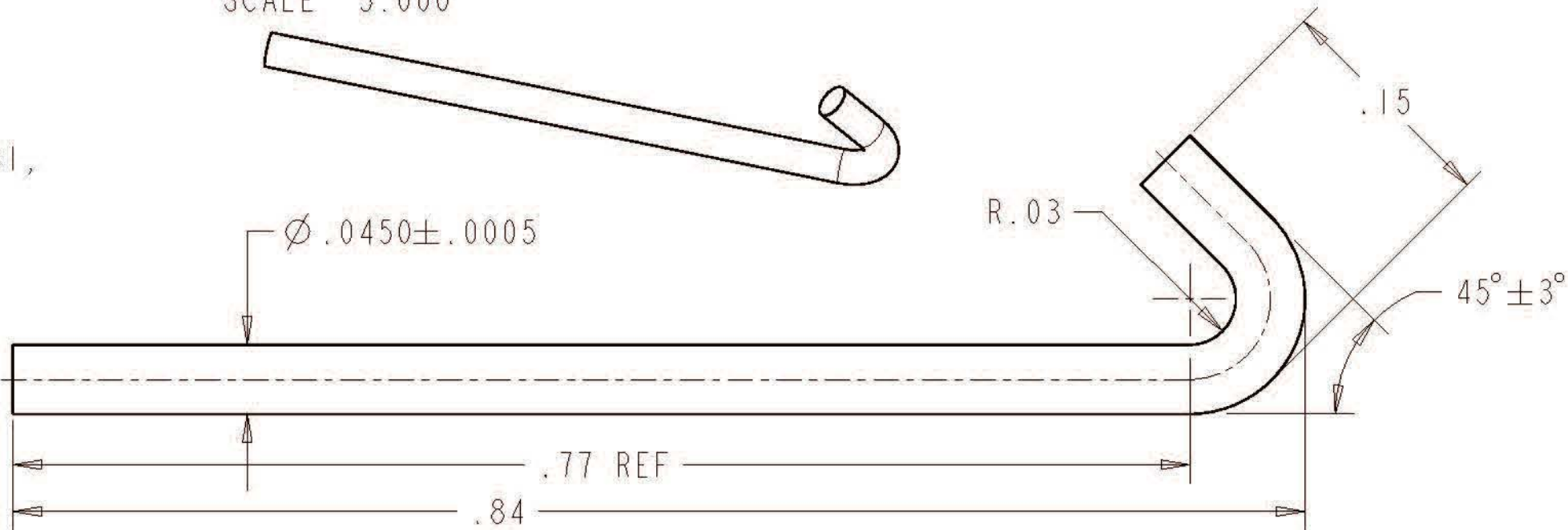
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N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR
-	F	NOR L2S3033 / 2002-07-22	2002-08-05	JJW

B

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
- FINISH 5.4.1 OF MIL-STD-171.
- PRECIPITATION HEAT TREAT AFTER FORMING. HOLD AT 900°F±10° FOR 1 HOUR. AIR COOL.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

SCALE 5.000



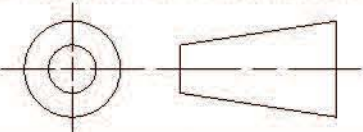
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PART NO. 8448614

A

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				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS									
MECHANICAL PROPERTIES				M16A4	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ±		DRAWN BY J. LOWDER - ESERV		DATE (YEAR-MO-DA) 1970-04-27		RETAINER, HAMMER PIN						
				M16A3			CHECKER K. JOHNSON-ESERV		ENGINEER J. WINDHAM								
				M16A2			ENGINEER L. KO		QUALITY ENGINEER E. SESE								
YP						THIRD ANGLE PROJECTION		DRAWING APPROVAL		SIZE		CAGE CODE		DWG NO.			
TS		9349110		M16A1					L. BRUNTON 2002-07-22		B		19204		8448614		
EL2				M4A1					DESIGN APPROVAL								
RA																	
BH		C8448612		M4													
		NEXT ASSY		USED ON													
RH			APPLICATION									SCALE		UNIT WT		SHEET	
						MATL ENGR		MODELED BY		R. ELBE 2002-07-22		10/1		0.0004		1 OF 1	



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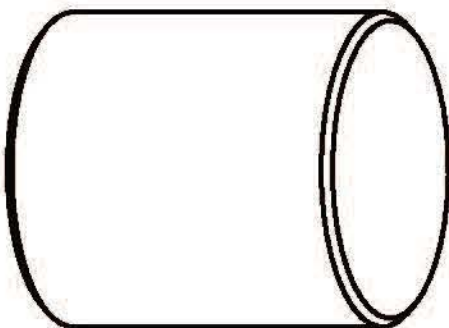
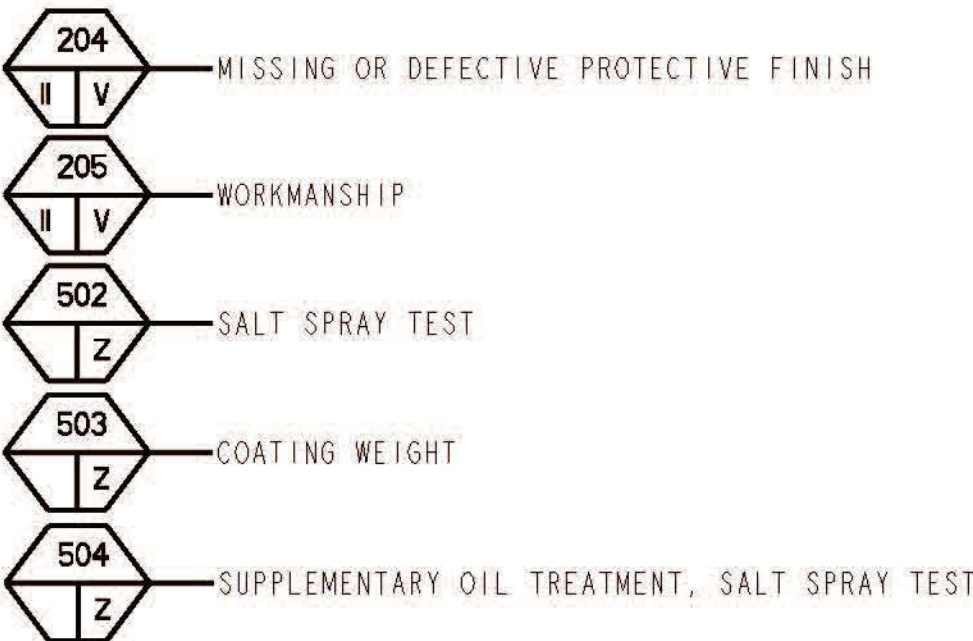
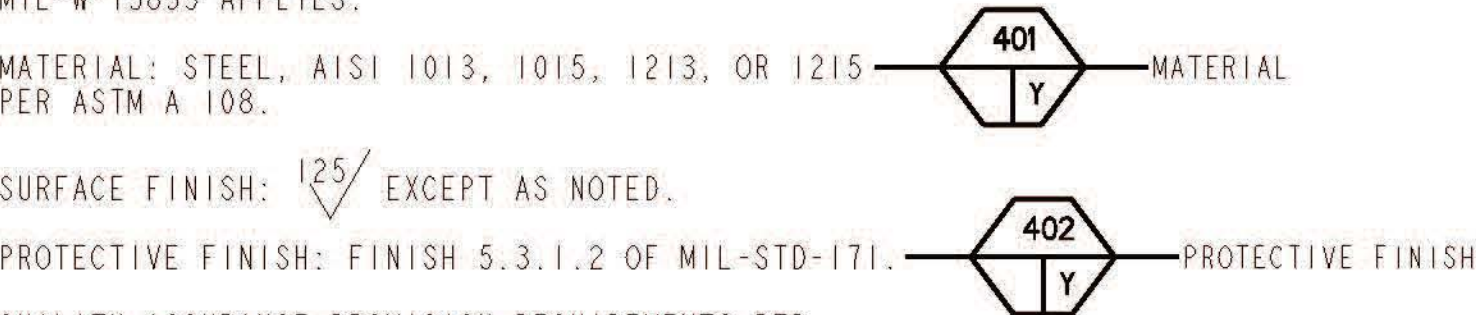
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NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 1013, 1015, 1213, OR 1215 PER ASTM A 108.
- SURFACE FINISH: 125 EXCEPT AS NOTED.
- PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW

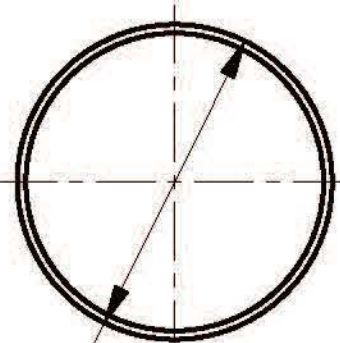
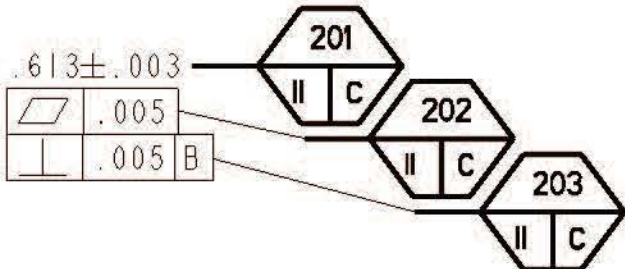
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	E	NOR G3S3118 / 1993-11-30	1994-03-17	
-	F	NOR L2S3009 / 2002-03-14	2002-05-21	JJW
A	G	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
B	H	NOR L09S3111 / 2009-09-10	2009-09-23	GJC

45° X .015 BOTH ENDS

.613±.003  
.005  
.005 B

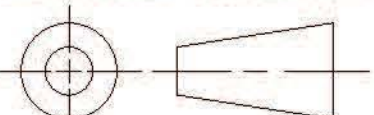


Ø.547<sup>+.000</sup><sub>-.004</sub>  
-B-  
101  
II C

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
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ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

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PART NO. 8448617

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS									
		M4A1															
MECHANICAL PROPERTIES			M4	TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		CONTRACTOR		WEIGHT, BUFFER									
			M16A4														
			M16A3														
YP				THIRD ANGLE PROJECTION		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27									
TS		13004468	M16A2														
EL2		9390023	M16A1														
RA		8448615	M16			CHECKER J. WINDHAM		ENGINEER J. WINDHAM									
BH																	
RH																	
		NEXT ASSY	USED ON	MATL ENGR		MODELED BY G. STRAHL		DRAWING APPROVAL L. BRUNTON 2002-03-15		DESIGN APPROVAL R. ELBE 2002-03-15		SIZE		CAGE CODE	DWG NO.		
		APPLICATION										C		19204		8448617	
												SCALE		3.000		UNIT WT.	



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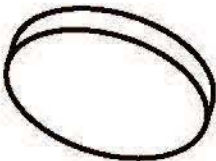
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N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	E	NOR G9S3108 / 1989-11-17	1997-03-03	JB
N/A	F	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	G	NOR L2S3009 / 2002-03-14	2002-05-21	JJW
A	H	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
B	J	NOR L08S3148 / 2009-01-21	2009-01-30	BMG

NOTES

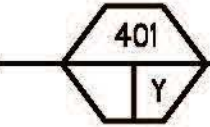
1. MIL-W-13855 APPLIES.
2. MATERIAL: SYNTHETIC ELASTOMER, CLASS I, GRADE 70 PER AMS-R-6855.
3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



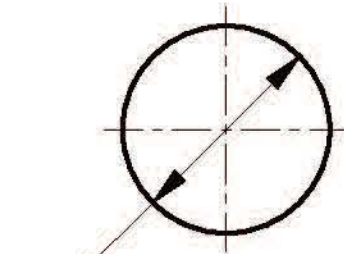
ISOMETRIC VIEW



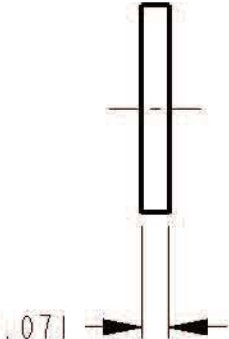
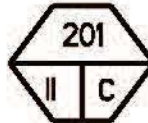
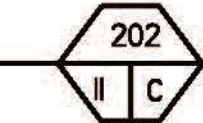
WORKMANSHIP



MATERIAL



$\varnothing .540^{+.000}_{-.020}$



.071

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PART NO. 8448618

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
			M4A1	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
			M4	TOLERANCE ON ANGLES $\pm 2^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY G. STRAHL		DATE (YEAR-MO-DA) 1970-04-27	
MECHANICAL PROPERTIES			M16A4	THIRD ANGLE PROJECTION		CHECKER J. WINDHAM		ENGINEER J. WINDHAM	
YP		13023911	M16A3			ENGINEER L. KO		QUALITY ENGINEER E. SESE	
TS		13004468	M16A2			DRAWING APPROVAL L. BRUNTON		2002-03-15	
EL2		9390023	M16A1			DESIGN APPROVAL R. ELBE		2002-03-15	
RA		8448615	M16			SCALE		2.000	
BH			NEXT ASSY	USED ON		CAGE CODE		19204	
RH			APPLICATION			DWG NO.		8448618	
				MATL ENGR	MODELED BY G. STRAHL	UNIT WT		0.000878	
						SHEET		1 OF 1	



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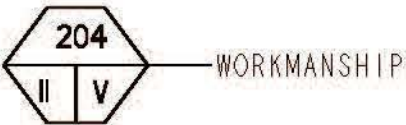
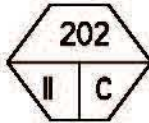
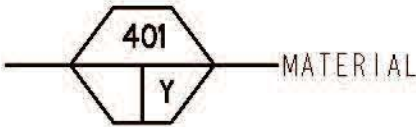
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REVISIONS

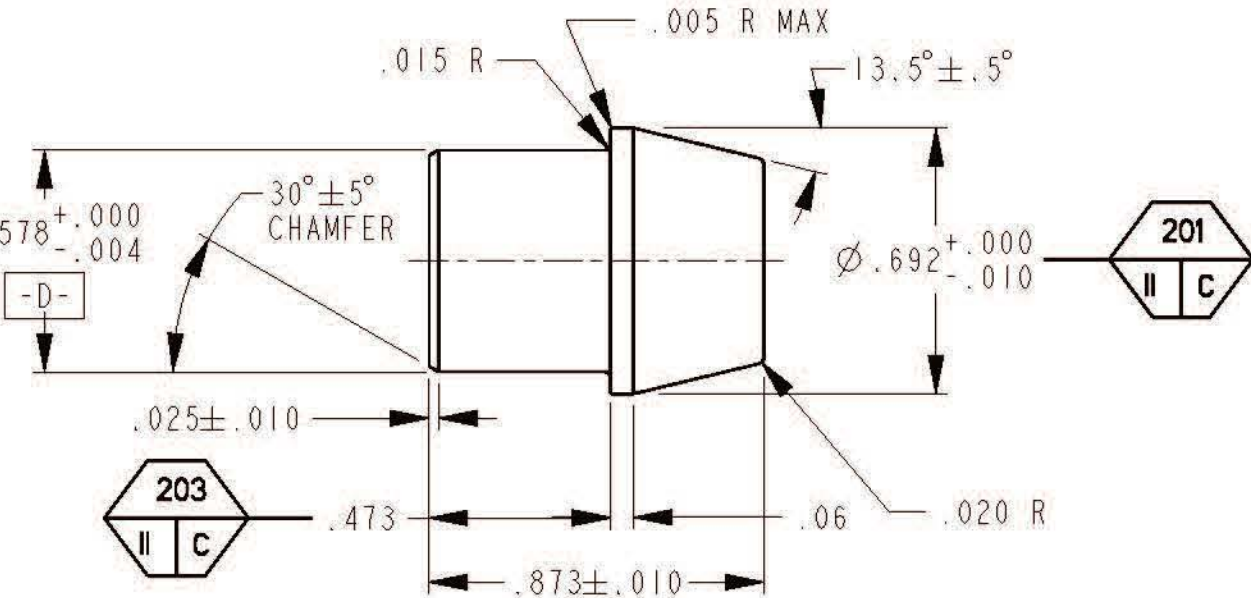
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N/A	G	NOR G3S3105 / 1993-01-25	1993-12-17	
-	H	NOR L2S3009 / 2002-03-14	2002-05-21	JJW
A	J	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	K	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
C	L	NOR L08S3148 / 2009-01-21	2009-01-30	BMG
D	M	NOR L11S3031 / 2011-04-14	2011-04-21	RLV

NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: POLYETHER URETHANE PER AMS 3571/6 OR DRAWING NUMBER 13036819. RESILIENCE PER ASTM D 2632 SHALL BE 40±4.
3. NO PARTING LINES PERMISSIBLE ON -D-.
4. ALL DIAMETERS SHALL BE ⌀ ⌀.005 D.
5. -
6. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 1.000



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US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448619

A	PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005  THIRD ANGLE PROJECTION 	CONTRACT NUMBER		DESIGN ACTIVITY					
						CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
	MECHANICAL PROPERTIES			M4A1		DRAWN BY B. NICEWANNER		DATE (YEAR-MO-DA) 1970-04-27		BUMPER, BUFFER			
				M4		CHECKER J. WINDHAM		ENGINEER J. WINDHAM					
	YP		13023911	M16A4		ENGINEER L. KO		QUALITY ENGINEER E. SESE					
	TS		13004468	M16A2		DRAWING APPROVAL L. BRUNTON		2002-03-15					
	EL2		9390023	M16A1		DESIGN APPROVAL R. ELBE		2002-03-15					
	RA		8448615	M16		SCALE		2.000		CAGE CODE 19204		DWG NO. 8448619	
	BH		NEXT ASSY			USED ON		UNIT WT		0.0133		SHEET	
	RH		APPLICATION									1 OF 1	



D

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C

- NOTES
1. MIL-W-13855 APPLIES.

2. MATERIAL: STEEL, ALLOY, AISI 8620 OR 86L20 PER ASTM A 322 OR ASTM A 108.

3. SURFACE FINISH: 125/ EXCEPT AS NOTED.

4. FILLET RADII .010 MAX.

5. BREAK ALL SHARP EDGES .010 MAX.

6. HEAT TREATMENT: CARBURIZE TO TOTAL CASE DEPTH .010<sup>+</sup>.005<sup>-</sup> AND ROCKWELL HARDNESS 15N 89 TO 91 OR EQUIVALENT.

7. POST-HEAT TREATMENT MACHINING ALLOWED ON SURFACES INDICATED. MAXIMUM REDUCTION IN DIAMETER AFTER POST-HEAT TREATMENT MACHINING: .006.

8. PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.

9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.
- 401  
Y

MATERIAL

403  
Y

505  
Z

CASE DEPTH

501  
Z

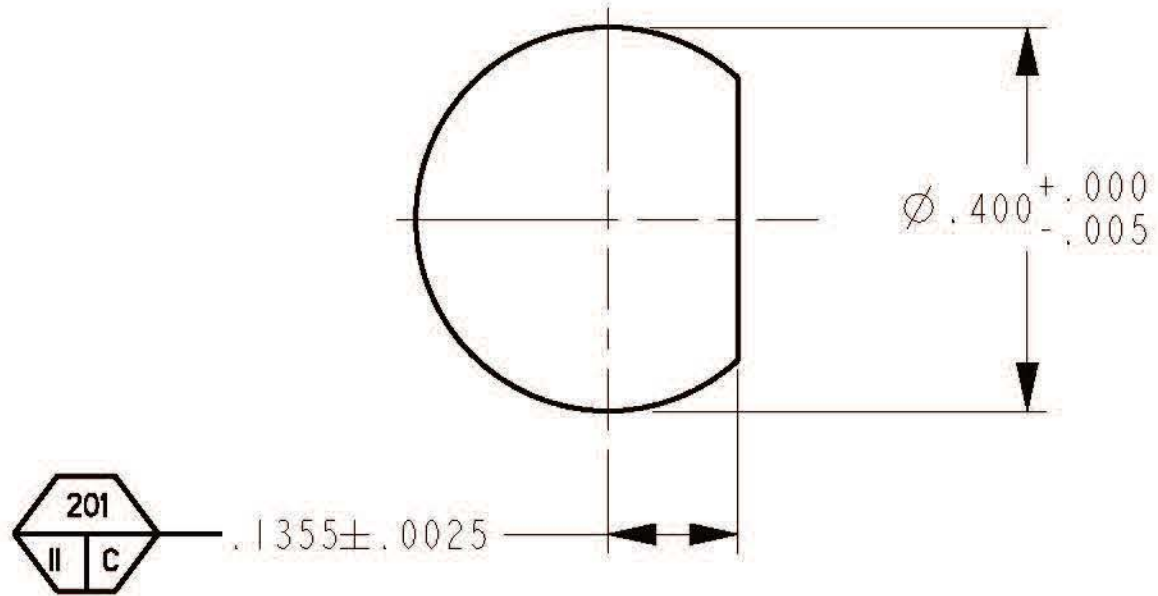
HARDNESS

205  
V

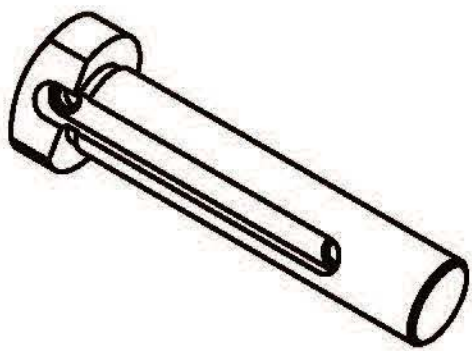
402  
Y

PROTECTIVE FINISH

B

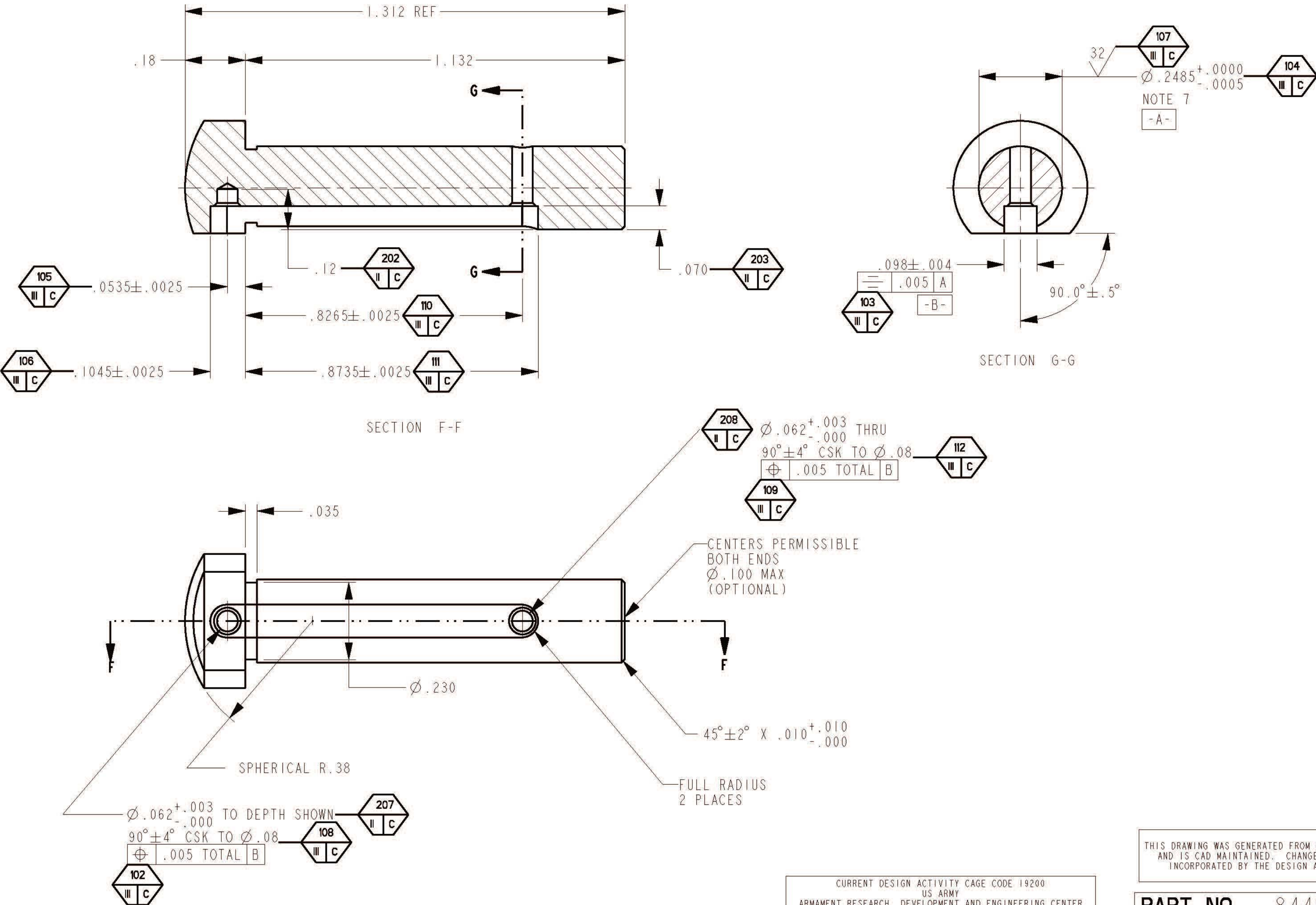


A



ISOMETRIC VIEW  
SCALE 2.000

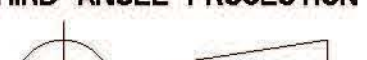
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PART NO. 8448621

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			M231	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
			M4A1										
MECHANICAL PROPERTIES			M4	TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27		PIN, RECEIVER PIVOT			
		9390011	M16A4			CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM					
		9327230	M16A3	THIRD ANGLE PROJECTION		ENGINEER L. KO		QUALITY ENGINEER E. SESE					
YP						DRAWING APPROVAL L. BRUNTON		2002-08-05					
TS						DESIGN APPROVAL R. ELBE		2002-08-05					
EL2			8448604	M16A2						SIZE D	CAGE CODE 19204	DWG NO. 8448621	
RA			8448578	M16A1									
BH													
			NEXT ASSY	USED ON	MATL ENGR	MODELED BY G. STRAHL							
RH			APPLICATION							SCALE 5.000	UNIT WT. 0.019	SHEET 1 OF 1	



ACT NUMBER		DESIGN ACTIVITY			
ACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
BY CEWANNER	DATE(YEAR-MO-DA) 1970-04-27	CATCH, BOLT			
DR CON-ESERV	ENGINEER J. WINDHAM				
DR L. KO	QUALITY ENGINEER E. SESE				
APPROVAL					
BRUNTON	2002-08-05	SIZE D	CAGE CODE 19204	DWG NO. 8448628	
APPROVAL		SCALE 3.000	UNIT WT. 0.027	SHEET 1 OF 1	
ELBE	2002-08-05				

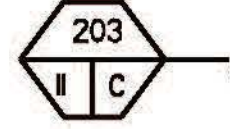
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## NOTES

I. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W 13855

5. CARBURIZE TO PRODUCE A TOTAL CASE DEPTH OF .014 TO .018.

10 FINAL PROTECTIVE FINISH: 5 3 1 2 OF MIL-STD-171



DETAIL A  
SCALE 6.000

MFG INDENT SYMBOL AND CAVITY IDENTIFICATION  
MARK .12 HIGH APPROX .005 MAX NEGATIVE  
ONLY IN APPROX POSITION SHOWN



TY IDENTIFICATION  
.005 MAX NEGATIVE  
MAX POSITION SHOWN.

R.125

.100

.000±.005

$\varnothing .104^{+.001}_{-.001}$

90° CSK T  
BOTH SIDE

R.078

.030

DETAIL B  
SCALE 4.000

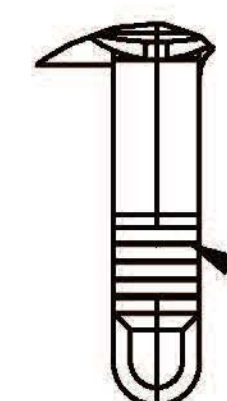


OPTIONAL GATE / TREE WITNESS  
.010 MAX ALLOWED ABOVE OR  
BELOW SURFACES



—OPTIONAL GATE / TREE WITNESS  
 .010 MAX ALLOWED ABOVE OR  
 BELOW SURFACE

38- FULL R 2 PLACES



—SERRATIONS (OPTIONAL)

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PART NO 8448628

PMIC			
			M4A1
			M4
			M16A4
YP		F8448578	M16A3
TS			
EL2		F8448604	M16A2
RA		9390011	M16A1
BH		NEXT ASSY	USED ON
RH		APPLICATION	

DO NOT SCALE DRAWING  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES ON ANGLES  $\pm$  1°  
2 PLACE DECIMALS  $\pm$  .01  
3 PLACE DECIMALS  $\pm$  .005

THIRD ANGLE PROJECTION

MODELLER BY  
B. NICEWANN

CONTRACT NUMBER	
CONTRACTOR	

DRAWN BY B. NICEWANNER	DATE(YEAR-MO-DA) 1970-04-27
---------------------------	--------------------------------

CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM
ENGINEER	QUALITY ENGINEER

DRAWING APPROVAL	
L. BRUNTON	2002-08-05

DESIGN APPROVAL

R. ELBE 2002-08-05

DESIGN ACTIVITY

Downloaded from <http://ajph.org/> on November 10, 2015

CATCH, BOLT

SIZE <b>D</b>	CAGE CODE 19204	DWG NO. 8448628
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SCALE	3.000	UNIT WT.	0.027	SHEET	1 OF 1
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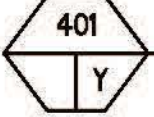
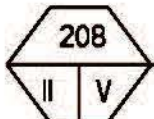
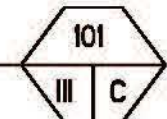
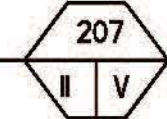
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	C	(3) SEE ERR HQR 20778	1972-10-06	RE
N/A	D	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	E	NOR G7S3065 / 1987-05-15	1988-01-12	ORFI
N/A	F	NOR GIS2018 / 1991-07-08	1991-10-11	RR/SR
-	G	NOR L2S3042 / 2002-08-05	2002-09-26	JJW

NOTES

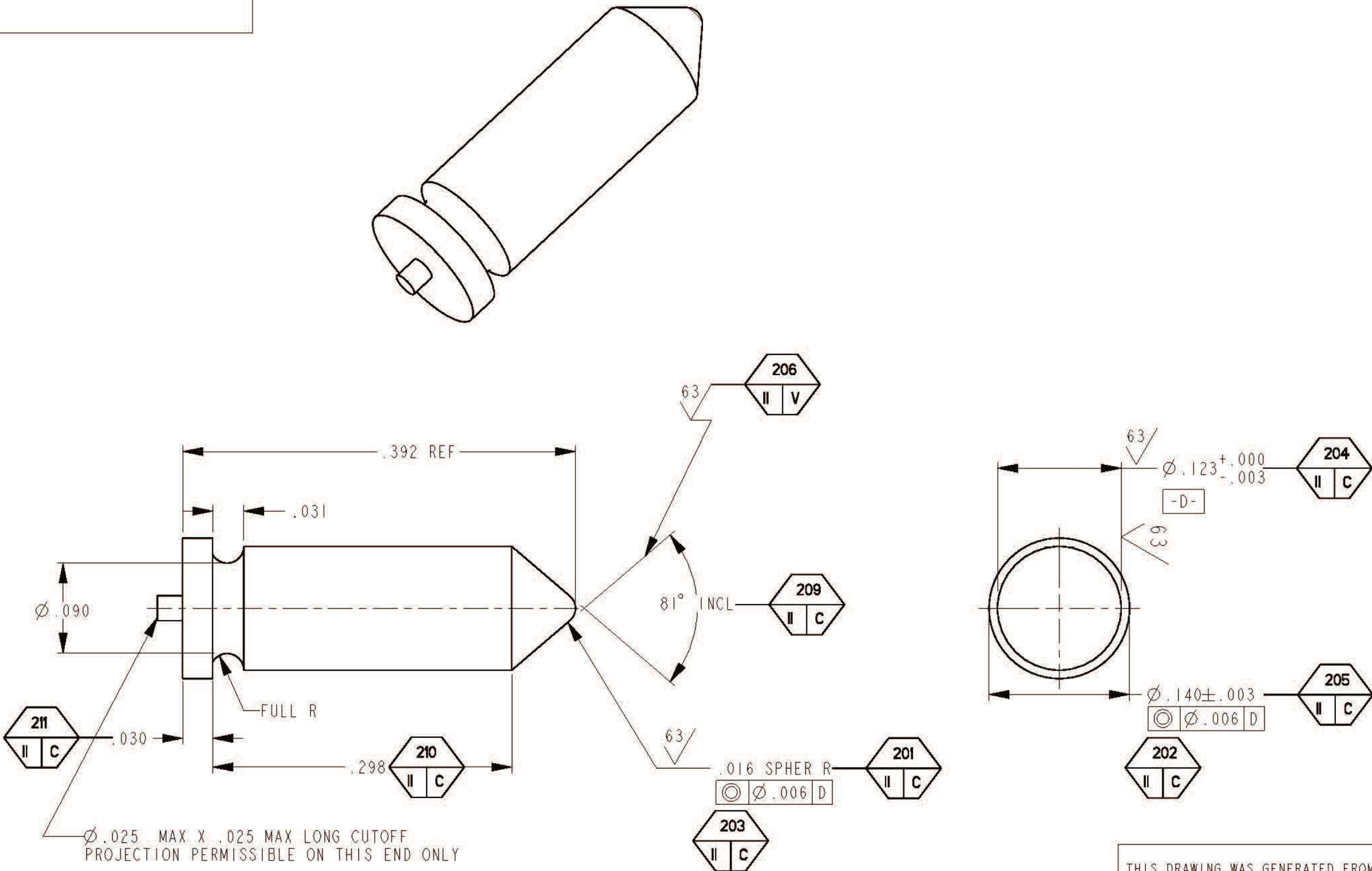
- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, CMPSN 1117, ASTM A108.
- ALL DIMENSIONS APPLY AFTER PROTECTIVE FINISH.
- SUGGESTED HEAT TREAT:  
LIQUID CARBURIZE AT 1550° F  
TO OBTAIN A TOTAL CASE DEPTH  
OF .010/.015.
- SURFACE FINISH 125/EXCEPT AS NOTED.
- FINISH 1.1.2.1 OF MIL-STD-171.  
DO NOT BAKE FOR EMBRITTLEMENT  
RELIEF.
- BREAK SHARP EDGES .005+.010.
- QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING 12993884 APPLY.
- ROCKWELL HARDNESS: 15N 89-91.



WORKMANSHIP

CASE DEPTH HARDNESS

CADIUM PLATING

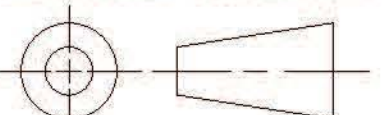


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PART NO. 8448631

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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS							
			M231												
MECHANICAL PROPERTIES			M4A1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		DETENT, FIRE CONTROL SELECTOR							
			M4												
		9390011	M16A4												
YP				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005		DRAWN BY		DATE(YEAR-MO-DA)							
TS						G. STRAHL		1970-04-27							
EL2						CHECKER		ENGINEER							
RA				THIRD ANGLE PROJECTION		J. MACON-ESERV		J. WINDHAM							
BH						ENGINEER		QUALITY ENGINEER							
RH						L. KO		E. SESE							
						DRAWING APPROVAL		SIZE		CAGE CODE		DWG NO.			
						L. BRUNTON		2002-08-05		C		19204		8448631	
						DESIGN APPROVAL				SCALE		UNIT WT.		SHEET	
				NEXT ASSY		USED ON		R. ELBE		10		0.001		1 OF 1	
				APPLICATION				G. STRAHL							



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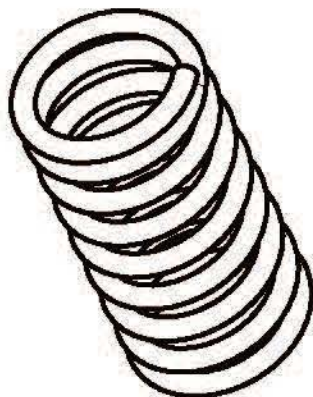
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NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN PER ASTM A 313.
- BREAK SHARP EDGES .003 ± .012.
- PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900°F ± 10° F FOR 1 HOUR. AIR COOL. HARDNESS SHALL BE ROCKWELL 15N 84.5 MIN OR EQUIVALENT.
- PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



ISOMETRIC VIEW

SPRING, HELICAL COMPRESSION

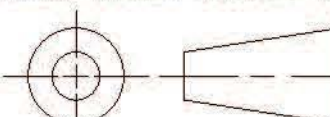
WIRE DIAMETER	.0180±.0005
COIL DIAMETER	.148±.004
TOTAL COILS	9 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .290	1.1 LB ± 0.1 LB
LOAD AT COMPRESSED SETTING OF	-----
SPRING RATE	-----
SOLID LENGTH	.185 MAX
TYPE OF ENDS	CLOSED
FREE LENGTH AFTER SETTING	.404 REF
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B OF MIL-S-13572.	

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PART NO. 8448633

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		12972690	M4A1		CONTRACTOR								
		9390011	M4										
		MECHANICAL PROPERTIES			12598101	M16A4							
12012001	M16A3												
9349100	M16A2			THIRD ANGLE PROJECTION 		SPRING, BOLT CATCH							
8448578	M16A1												
YP		8448604	M16	DRAWING APPROVAL L. BRUNTON 2002-08-05				SIZE C	CAGE CODE 19204	DWG NO. 8448633			
TS		NEXT ASSY		USED ON									
EL2		APPLICATION		MATL ENGR	MODELED BY J. KREIDER	DESIGN APPROVAL R. ELBE 2002-08-05		SCALE	7.000	UNIT WT.	0.000260	SHEET	1 OF 1
RA													
BH													
RH													



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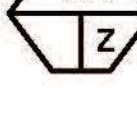
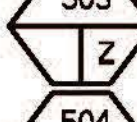
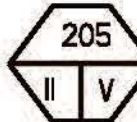
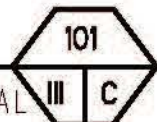
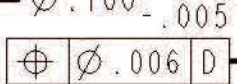
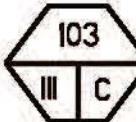
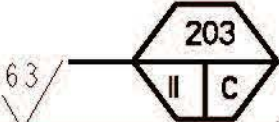
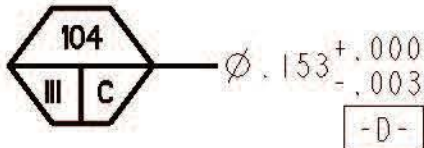
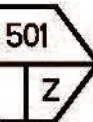
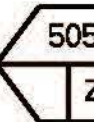
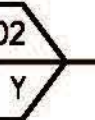
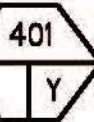
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

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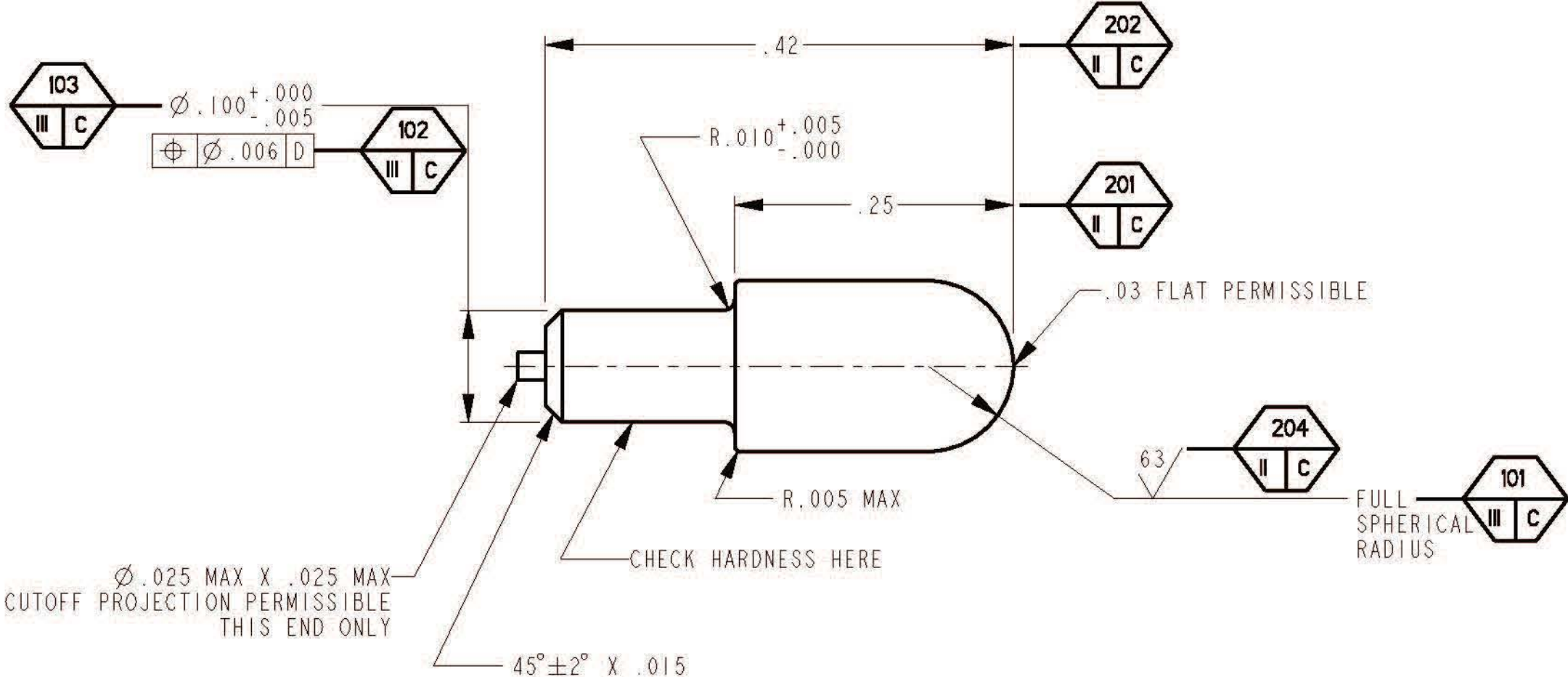
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N/A	D	NOR G7S3114 / 1987-09-11	1988-01-12	
N/A	E	NOR G1S2018 / 1991-07-08	1991-10-11	RR/SR
N/A	F	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	AJL/SR
-	G	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	H	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	J	NOR L09S5086 / 2009-06-02	2009-07-07	AMW

NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 1117 PER ASTM A 108.
- SURFACE FINISH: 125 EXCEPT AS NOTED.
- PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.
- SUGGESTED HEAT TREATMENT: LIQUID CARBURIZE AT 1550° F TO OBTAIN A TOTAL CASE DEPTH OF .003 TO .006. HARDEN AND TEMPER TO ROCKWELL 15N 85 TO 90 OR EQUIVALENT.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 4.000



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PART NO. 8448634

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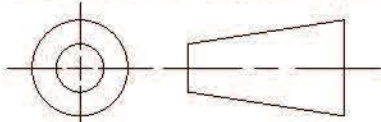
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	12972690	M4A1
	9390011	M4
MECHANICAL PROPERTIES	12598101	M16A4
	12012001	M16A3
YP	9349100	M16A2
TS	8448578	M16A1
EL2	8448604	M16
RA		
BH		
RH		
	NEXT ASSY	USED ON
	APPLICATION	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± 2°  
2 PLACE DECIMALS ± .01  
3 PLACE DECIMALS ± .005

THIRD ANGLE PROJECTION



MATL ENGR

MODELED BY

G. STRAHL

CONTRACT NUMBER

CONTRACTOR

DRAWN BY

G. STRAHL

DATE(YEAR-MO-DA)

1970-04-27

CHECKER

J. MACON-ESERV

ENGINEER

J. WINDHAM

ENGINEER

L. KO

QUALITY ENGINEER

E. SESE

DRAWING APPROVAL

L. BRUNTON

2002-08-05

DESIGN APPROVAL

R. ELBE

2002-08-05

DESIGN ACTIVITY

US ARMY  
ROCK ISLAND ARSENAL  
ROCK ISLAND, ILLINOIS

PLUNGER, BOLT CATCH

SIZE

C

CAGE CODE

19204

DWG NO.

8448634

SCALE

8.000

UNIT WT.

0.00158

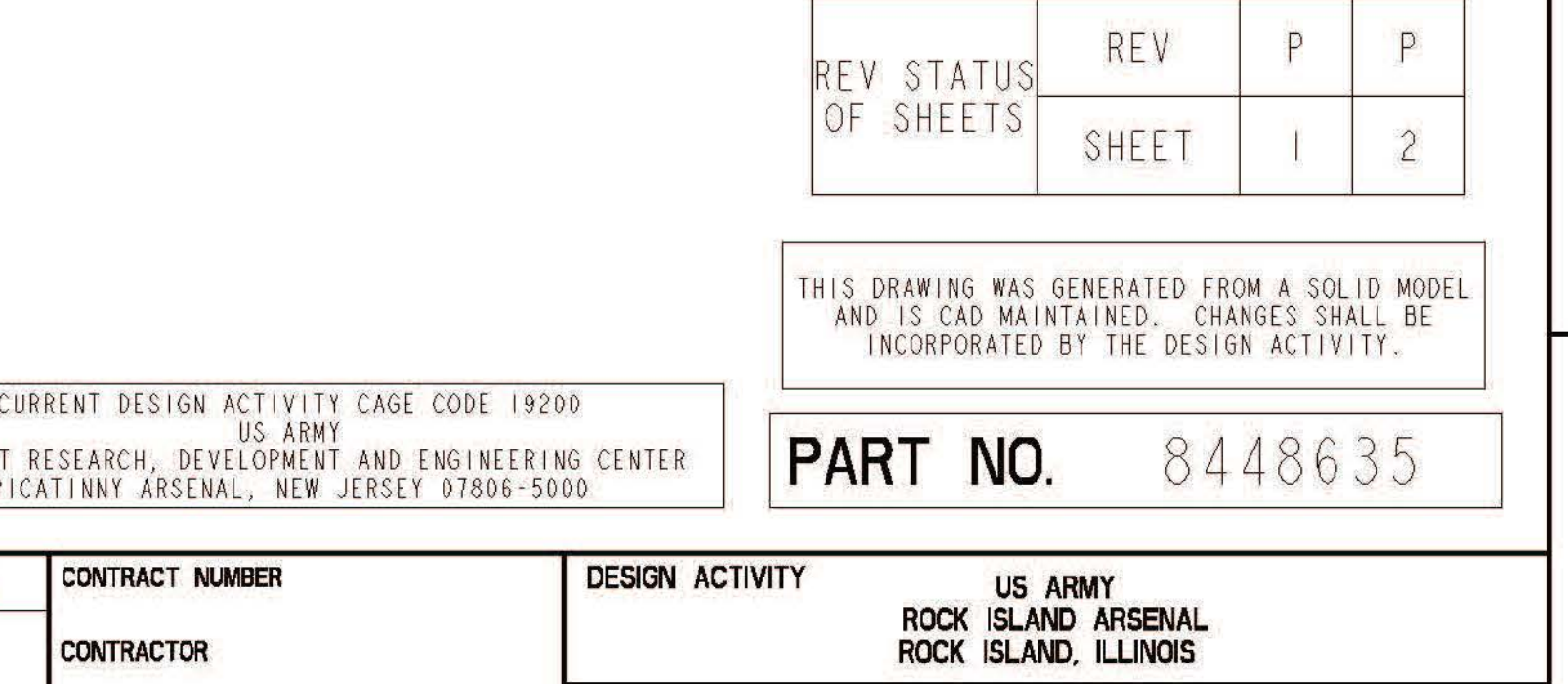
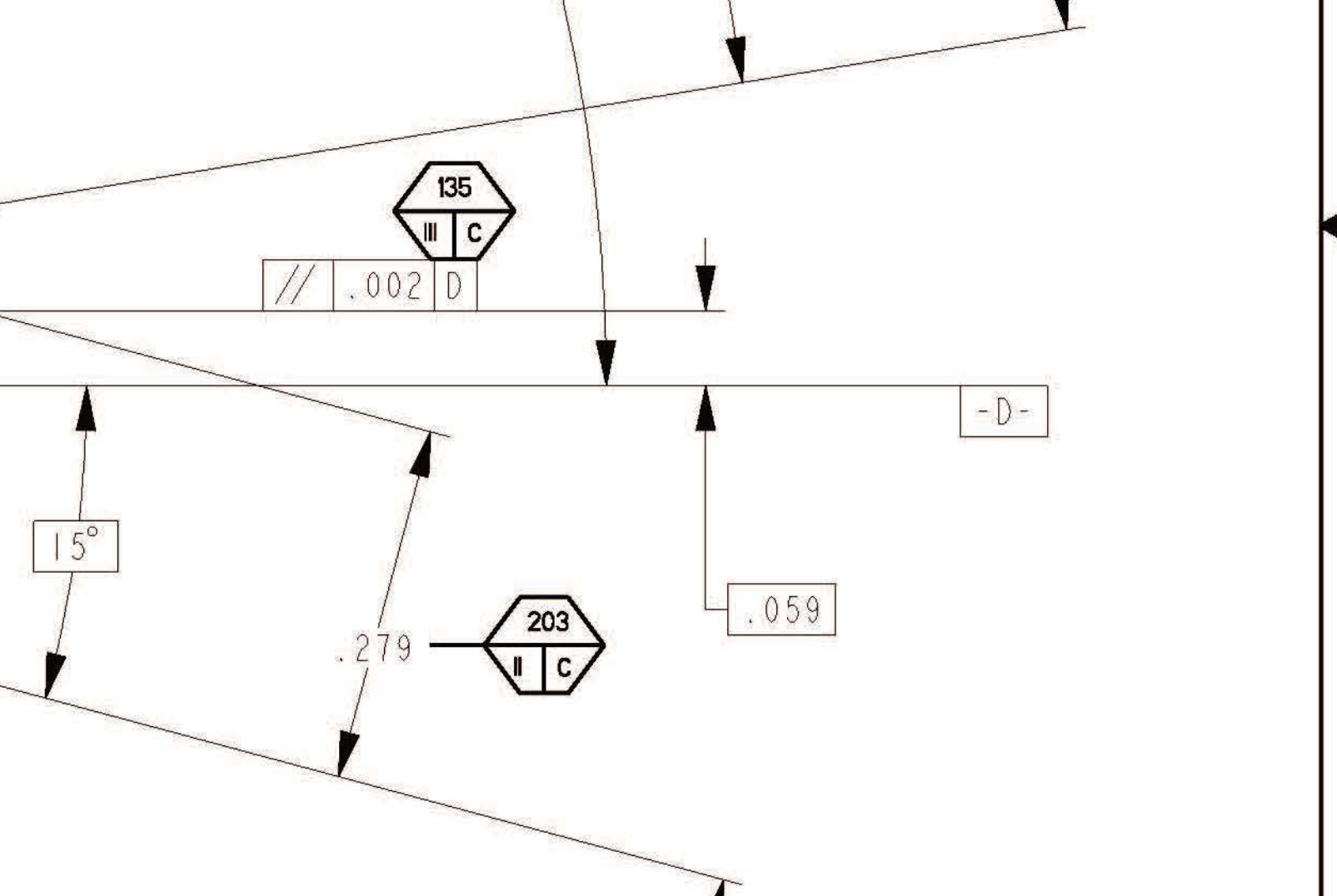
SHEET

1 OF 1



C	N	NOR L09S3097 / 2009-04-17	2009-05-04	BMG
D	P	NOR L10S5097 / 2010-08-25	2010-09-09	GJC

- 
- DETAIL K  
SCALE 60,000
- .012 ± .003 FLAT  
NOTE 9
- 116  
III C
- 113  
III C
- 202  
I C
- 109  
III C
- .710
- .613 ± .003
- .001 C
- VER



DRAWN BY J. WINDHAM		DATE (YEAR-MO-DA) 1978-04-27		DISCONNECT		
CHECKER J. MACON - ESERY		ENGINEER J. WINDHAM				
ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI				
DRAWING APPROVAL L. BRUNTON 2002-08-28						
DESIGN APPROVAL R. FIFE 2002-08-28				SIZE F	CAGE CODE 19204	DWG NO. 8448635
SCALE 8.000		UNIT WT.		0.0200		SHEET 1 OF 2



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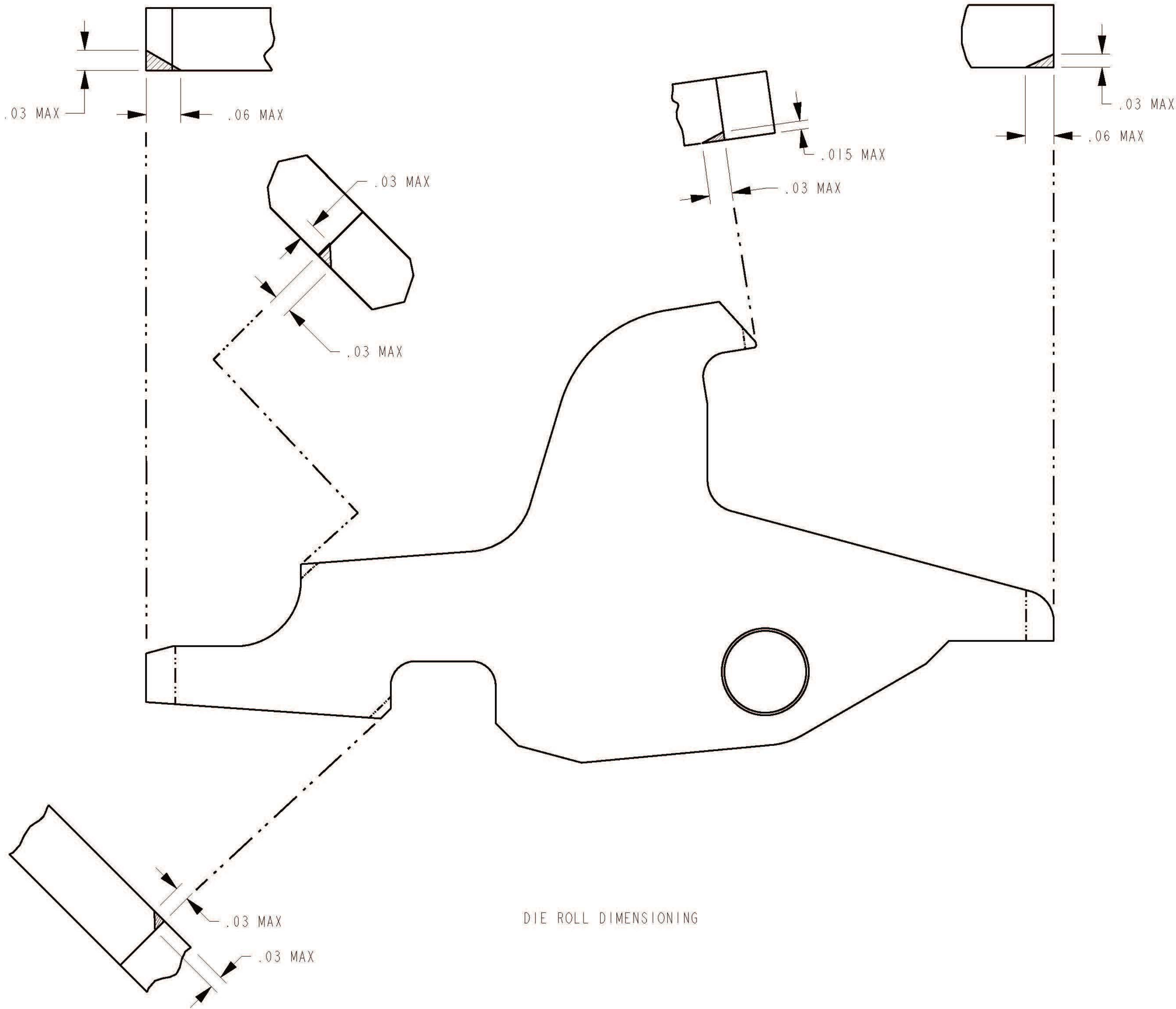
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MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	E	NOR G253032 / 1992-04-08	1992-05-20	GHS/SR
N/A	F	NOR G253046 / 1992-05-26	1992-07-08	SR
N/A	G	NOR G253121 / 1993-01-08	1993-03-24	SR
N/A	H	NOR G553099 / 1995-10-02	1996-01-17	RLV
N/A	J	NOR L152102 / 2001-08-23	2001-09-26	RLV
-	K	NOR L253044 / 2002-08-28	2002-10-22	JJW
A	L	NOR L353161 / 2004-03-31	2004-08-13	RLV
B	M	NOR L0855015 / 2008-12-09	2008-12-16	AMW
C	N	NOR L0953097 / 2009-04-07	2009-05-04	BMS
D	P	NOR L1055097 / 2010-08-25	2010-09-09	GJC



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			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACTOR	US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS
MECHANICAL PROPERTIES			TOLERANCES ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	DRAWN BY J. WINDHAM 1970-04-27	DISCONNECT
YP	12972690	M4A1	THIRD ANGLE PROJECTION	CHECKER J. MACON - ESERV ENGINEER J. WINDHAM	
TS	12012001	M16A3		ENGINEER L. KO QUALITY ENGINEER L. CICHUCKI	
EL2	8448578	M16A1		DRAWING APPROVAL L. BRINTON 2002-08-28	SIZE F
RA	8448604	M16		DESIGN APPROVAL R. ELBE 2002-08-28	CAGE CODE 19204
BH					DWG NO. 8448635
RH					SCALE 8.000
	NEXT ASSY	USED ON	MATL ENGR	MODELED BY J. WINDHAM	UNIT WT. 0.0200
					SHEET 2 OF 2

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PART NO. 8448635



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N/A	B	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	C	NOR G0S3102 / 1990-06-28	1990-10-22	GHS
N/A	D	NOR GIS2018 / 1991-07-08	1991-10-11	RR/SR
N/A	E	NOR G6S2008 / 1996-03-28	1996-05-23	RLV
-	F	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

1. MIL-W-13855 APPLIES.

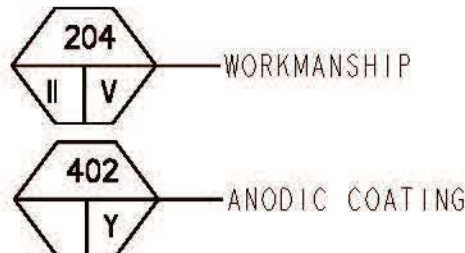
2. MATERIAL: ALUMINUM ALLOY 7075-T6, ASTM B221.

3. FINISH: MIL-A-8625, TYPE 3, CLASS 2, FILM THICKNESS .0010  $\pm$ .0002. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL

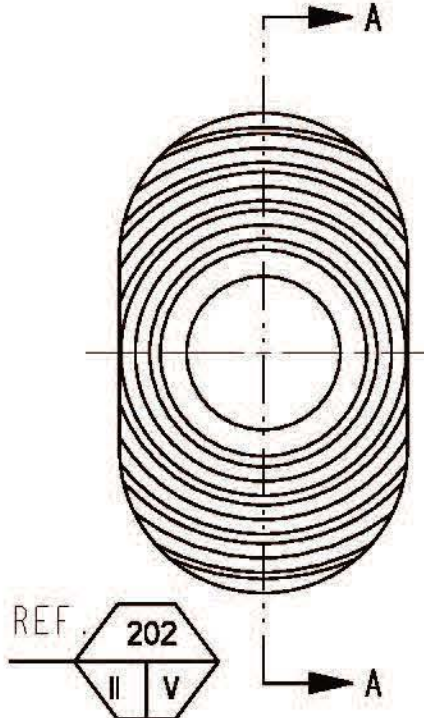
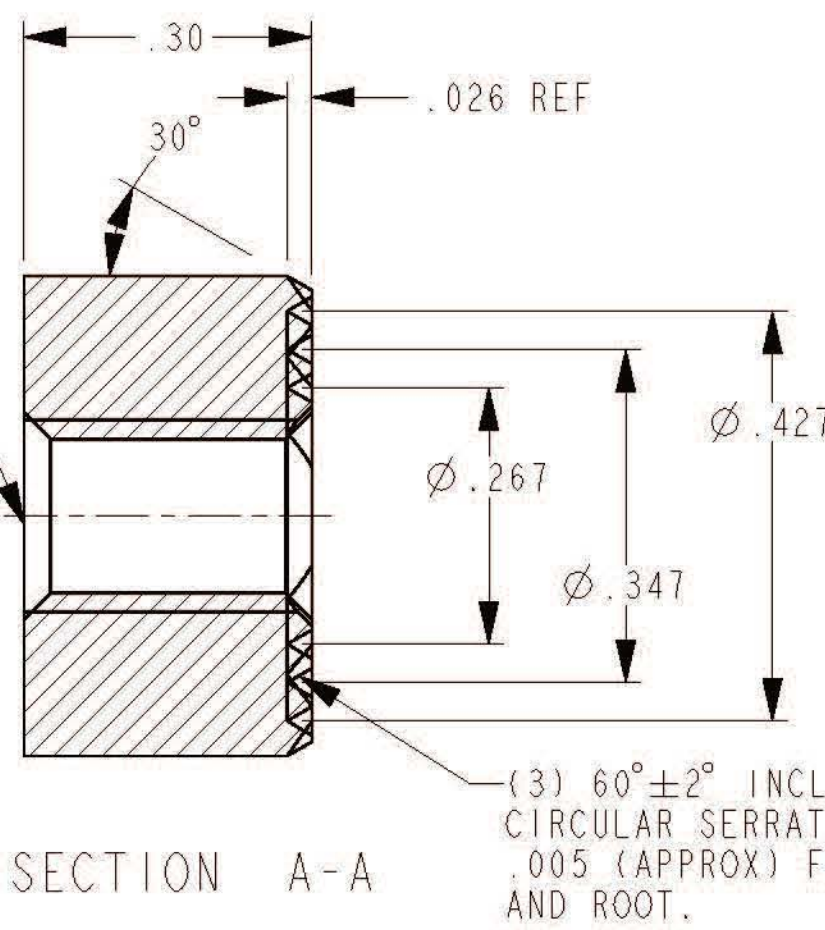
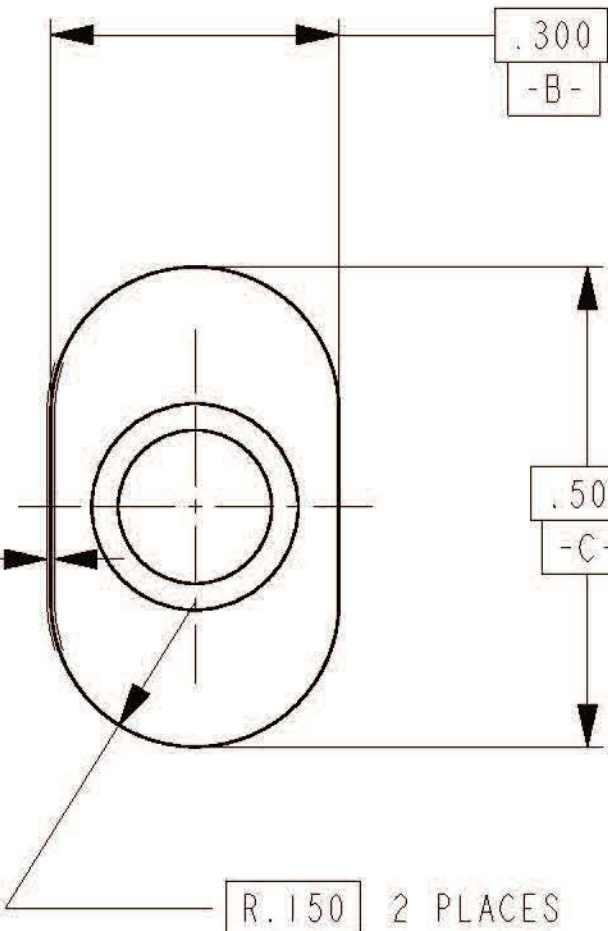
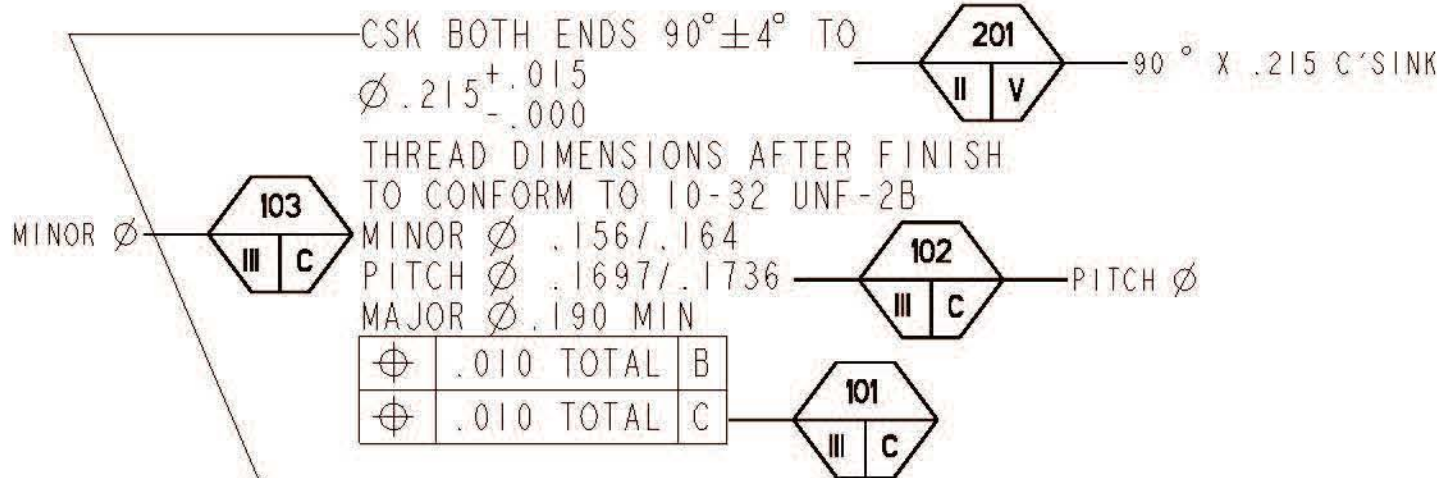
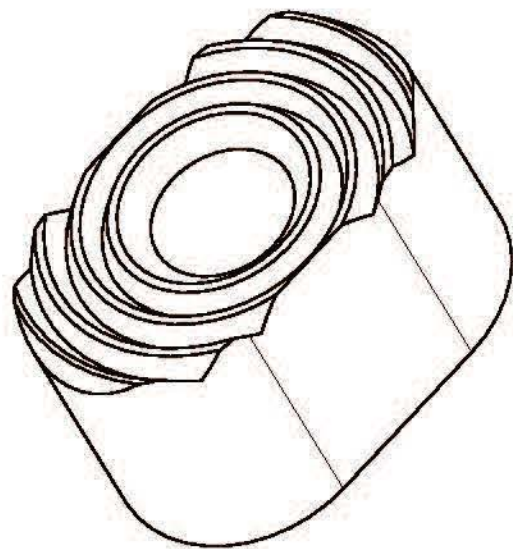
4. ALL DIMENSIONS APPLY BEFORE FINISH.

5. SURFACE FINISH 125/

6. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



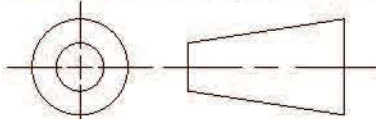
TOLERANCE ZONE AROUND CONTOUR IS .0025



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PART NO. 8448636

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY									
			M231	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS									
		M4A1															
MECHANICAL PROPERTIES		9390011	M4	TOLERANCE ON ANGLES $\pm 1^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY B NICEWANNER		DATE(YEAR-MO-DA) 1970-04-27		BUTTON, MAGAZINE RELEASE							
		9349100	M16A4														
YP				THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM									
TS		F9237230	M16A3														
EL2		F8448604	M16A2														
RA		F8448578	M16A1			ENGINEER L. KO		QUALITY ENGINEER E. SESE									
BH																	
RH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY B NICEWANNER		DRAWING APPROVAL L. BRUNTON 2002-08-05		DESIGN APPROVAL R. ELBE 2002-08-05		SIZE		CAGE CODE	DWG NO.		
		APPLICATION										C		19204		8448636	
										SCALE		5	UNIT WT.	0.003	SHEET 1 OF 1		



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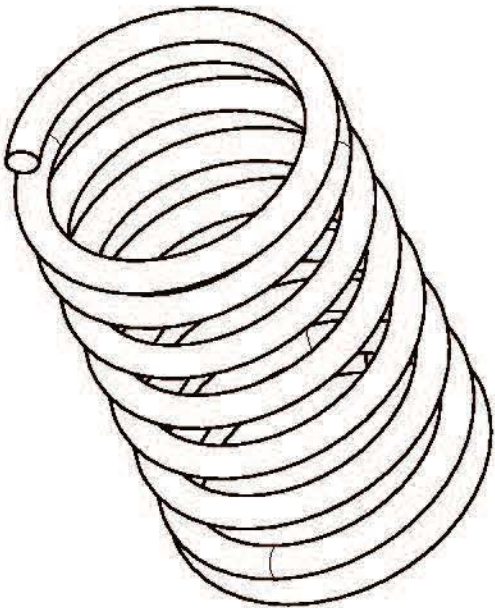
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MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	B	REPLACES REV A W/ CHANGE SEE ERR HQR 20778	1972-10-06	LB
N/A	C	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	D	NOR W2S0011 / 1982-04-13 (ECP W2S0034 / 1982-07-15) (ECP W3S3120 / 1983-07-07)	1983-11-04	HW
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	RR/SR
-	F	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855
2. MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
3. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900°F ±10° FOR 1 HOUR. AIR COOL.
4. BREAK SHARP EDGES .003 ±.012.
5. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.
6. PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.



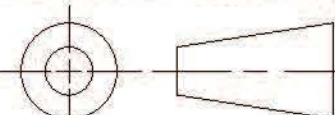
SPRING, HELICAL, COMPRESSION

WIRE DIAMETER	.0290±.0005
COIL DIAMETER	.298±.007
TOTAL COILS	8 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .470	5.64 LB ± .56 LB
LOAD AT COMPRESSED SETTING OF	-----
SPRING RATE	-----
SOLID LENGTH	.270 MAX
TYPE OF ENDS	CLOSED
FREE LENGTH AFTER SETTING	1.15 REF
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572,	

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PART NO. 8448637

PMIC		9327230	M231	DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005	CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
		12972690	M4A1		CONTRACTOR							
		9390011	M4				DRAWN BY J. KREIDER	DATE(YEAR-MO-DA) 1970-04-27				
		MECHANICAL PROPERTIES			12598101	M16A4	CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM	SPRING, MAGAZINE CATCH			
12012001	M16A3			ENGINEER L. KO	QUALITY ENGINEER E. SESE							
9349100	M16A2			DRAWING APPROVAL L. BRUNTON 2002-08-05		SIZE C	CAGE CODE 19204	DWG NO. 8448637				
8448578	M16A1											
RA	8448604	M16			SCALE	1	UNIT WT.	0.0013	SHEET	1 OF 1		
BH	NEXT ASSY		USED ON	THIRD ANGLE PROJECTION 								
RH	APPLICATION				MATL ENGR	MODELED BY J. KREIDER						

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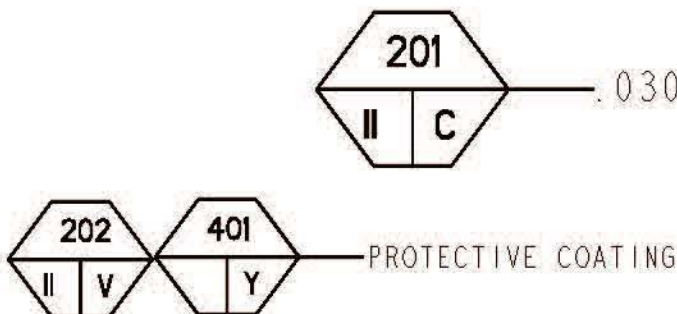
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	REDRAWN FROM COLT'S DRAWING C61604 REV A	1970-04-27	
N/A	A	SEE ERR HQR 20778	1972-10-06	
N/A	B	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	C	NOR GIS2018 / 1991-07-08	1991-10-11	RR/SR
N/A	D	NOR G2S3059 / 1992-07-16 (ECP G2S3060 / 1992-06-30)	1992-08-11	AJL
-	E	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	F	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855
2. ASSEMBLE 8448639 AND 8448640  
USING 15±5 INCH LB OF TORQUE BEFORE  
SWAGING.
3. FINAL PROTECTIVE FINISH 5.3.1.2 OF MIL-STD-171.
4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



.030 MAX

PROTECTIVE COATING

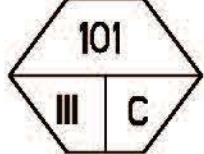
SWAGE TO FORM HEAD AND LOCK ASSEMBLY.  
SWAGED HEAD MUST BE SMOOTH AND  
SYMMETRICAL.

PLATE, MAGAZINE CATCH  
8448639

- A -

SHAFT, MAGAZINE CATCH- 8448640

1 A .004



ASSEMBLEABILITY OF MAGAZINE CATCH TO LOWER RECEIVER

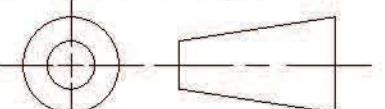
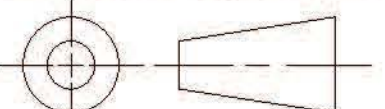
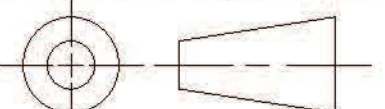
WORKMANSHIP

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INCORPORATED BY THE DESIGN ACTIVITY.

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448638

DISTRIBUTION STATEMENT F: FURTHER  
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ROCK ISLAND, IL; 1993-09-14.

PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		CONTRACT NUMBER  CONTRACTOR  DRAWN BY B NICEWANNER DATE(YEAR-MO-DA) 1970-04-27  CHECKER J. MACON-ESERV ENGINEER J. WINDHAM  ENGINEER L. KO QUALITY ENGINEER E. SESE  DRAWING APPROVAL L. BRUNTON 2002-08-05  DESIGN APPROVAL R. ELBE 2002-08-05		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS   CATCH, MAGAZINE															
			M16A4																				
			M16A3																				
MECHANICAL PROPERTIES			M4A1			CATCH, MAGAZINE																	
	9390011	M4																					
YP		F9327230	M231																				
TS		F8448604	M16A2			CATCH, MAGAZINE																	
EL2		F8448578	M16A1																				
RA																							
BH		NEXT ASSY	USED ON			CATCH, MAGAZINE																	
RH		APPLICATION																					
				MATL ENGR		MODELED BY		B NICEWANNER		R. ELBE 2002-08-05		SIZE C		CAGE CODE 19204		DWG NO. 8448638		SCALE 4		UNIT WT. 0.009		SHEET 1 OF 1	



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## NOTES

## 1. APPLICABLE STANDARDS/SPECIFICATIONS:

A. MIL-W-13855

2. MATERIAL: STEEL, CMPSN 1018, PER ASTM-A108, OR AISI 8620 PER ASTM-A322 OR ASTM-A505, OR MIM-8620 PER 13011863.

3. CARBURIZE .010 TO .015 TOTAL CASE DEPTH.

4. SURFACE FINISH 125/EXCEPT AS NOTED.

5. BREAK ALL SHARP EDGES .003 +.007 EXCEPT AS NOTED.

6. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS 15N 89-91.

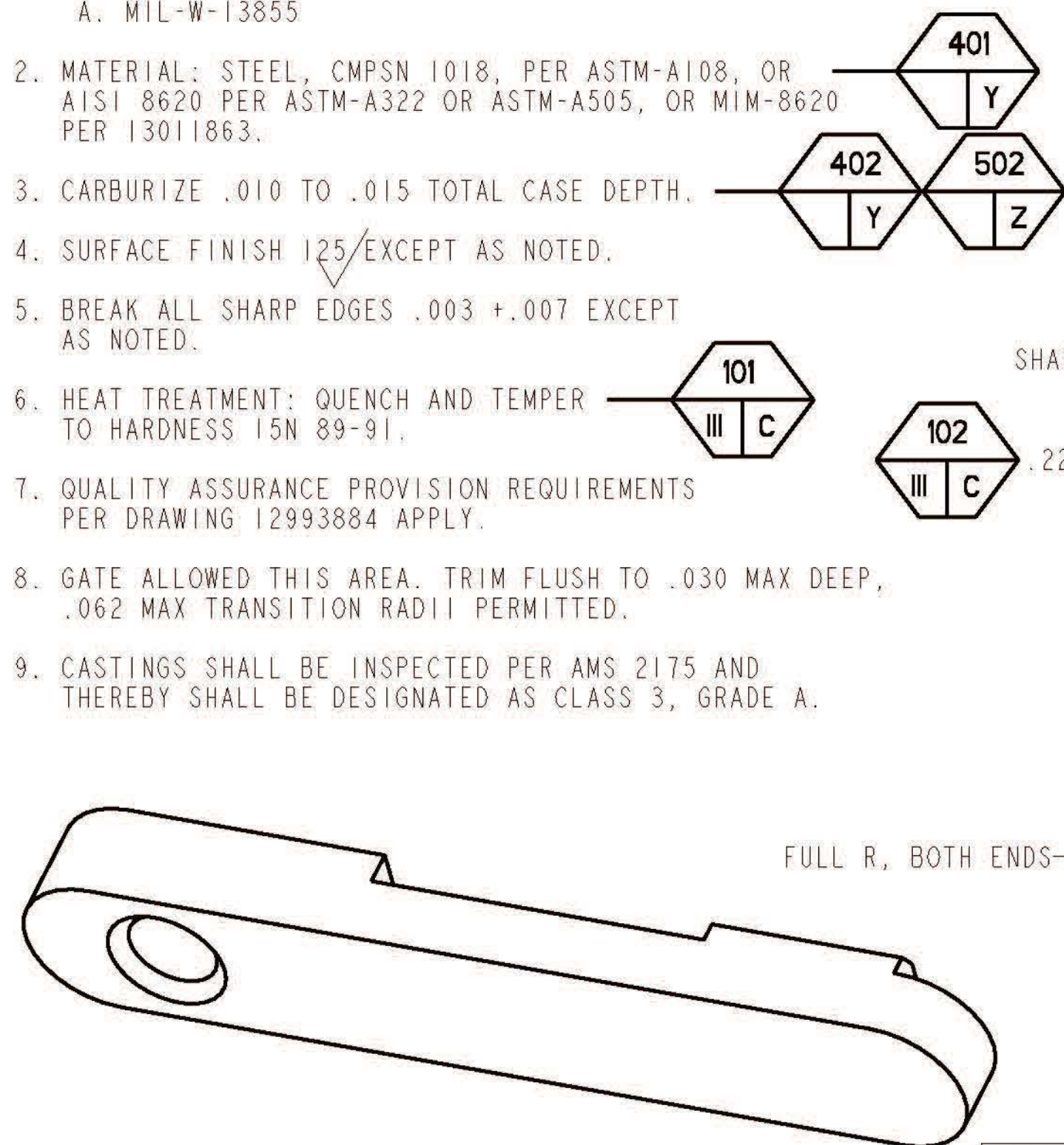
7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

8. GATE ALLOWED THIS AREA. TRIM FLUSH TO .030 MAX DEEP, .062 MAX TRANSITION RADIUS PERMITTED.

9. CASTINGS SHALL BE INSPECTED PER AMS 2175 AND THEREBY SHALL BE DESIGNATED AS CLASS 3, GRADE A.

## REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	REDRAWN FROM COLT'S DRAWING C61605 REVISION B	1970-04-27	
N/A	A	(4) SEE ERR HQR 20778	1972-10-06	RE
N/A	B	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	C	NOR G1S2018 / 1991-07-08	1991-10-11	RR/SR
N/A	D	NOR G3S3100 / 1993-10-25	1993-12-17	GK/SR/DJS
N/A	E	NOR G6S3034 / 1996-05-23	1996-07-03	FET
-	F	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	G	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	H	NOR L06S9051 / 2006-04-11	2006-07-19	BMG



CURRENT DESIGN ACTIVITY CAGE CODE 19200

US ARMY

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
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PART NO. 8448639

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
		TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27	
		THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM	
				ENGINEER L. KO		QUALITY ENGINEER E. SESE	
				DRAWING APPROVAL L. BRUNTON		2002-08-05	
				DESIGN APPROVAL R. ELBE		2002-08-05	
						SIZE C	
						CAGE CODE 19204	
						DWG NO. 8448639	
						SCALE 5	
						UNIT WT. 0.013	
						SHEET 1 OF 1	

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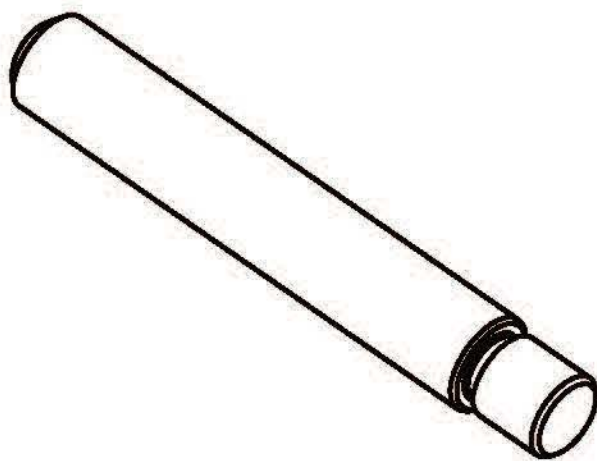
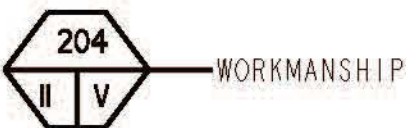
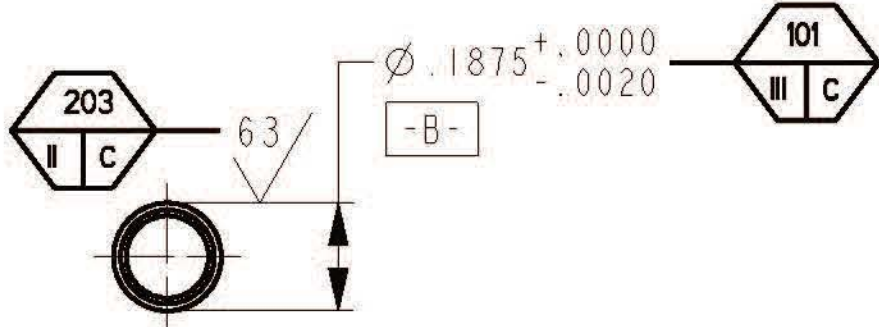
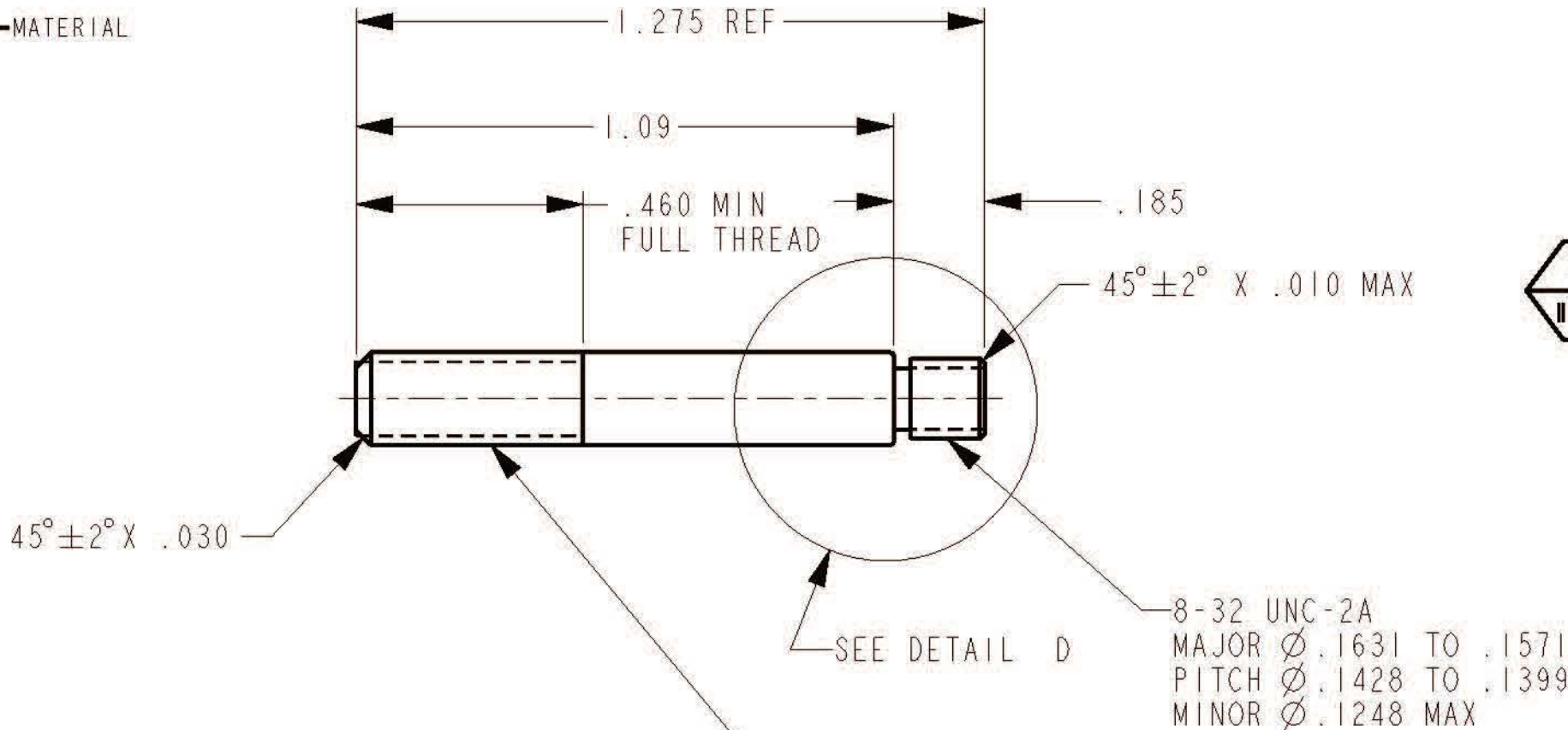
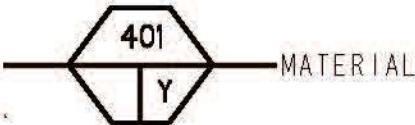
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NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL, AISI 1018, 1118, OR 1215 PER ASTM A 108 OR AISI 8620 PER ASTM A 322.
- SURFACE FINISH: 125/ EXCEPT AS NOTED.
- ALL DIAMETERS  $\varnothing .005$  -B-.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW

DETAIL D  
SCALE 5.000

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

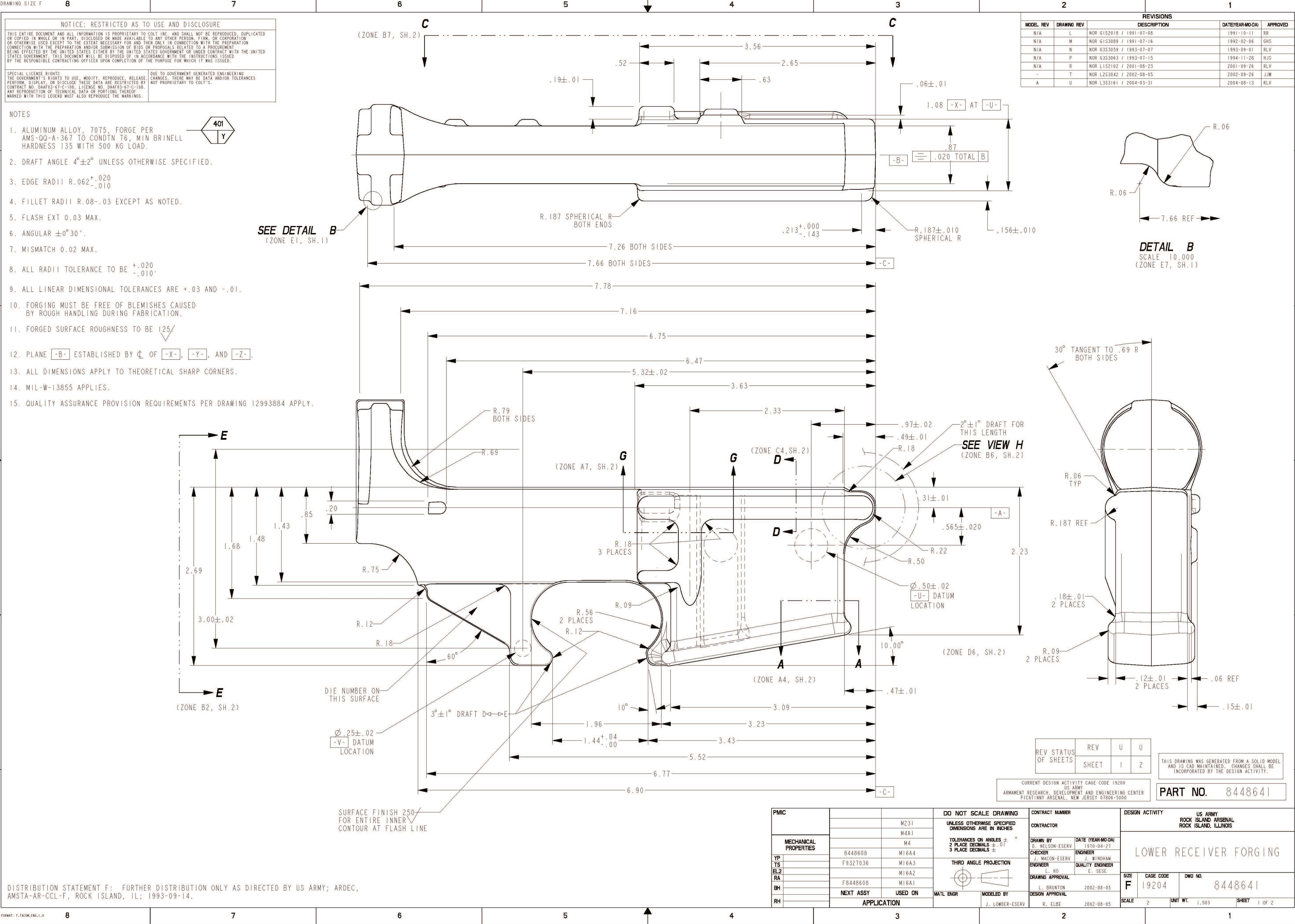
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PART NO. 8448640

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
		TOLERANCE ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1970-04-27	
		THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM	
				ENGINEER L. KO		QUALITY ENGINEER E. SESE	
				DRAWING APPROVAL L. BRUNTON		2002-08-05	
				DESIGN APPROVAL R. ELBE		2002-08-05	
						SIZE C	
						CAGE CODE 19204	
						DWG NO. 8448640	
						SCALE 3.000	
						UNIT WT. 0.010	
						SHEET 1 OF 1	







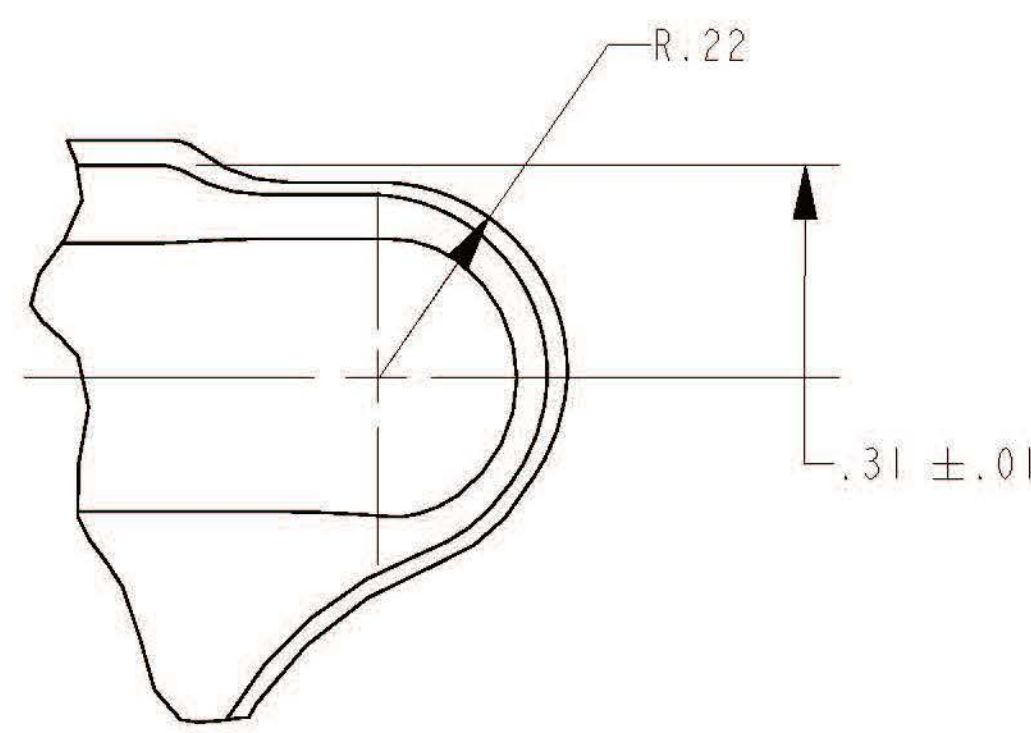
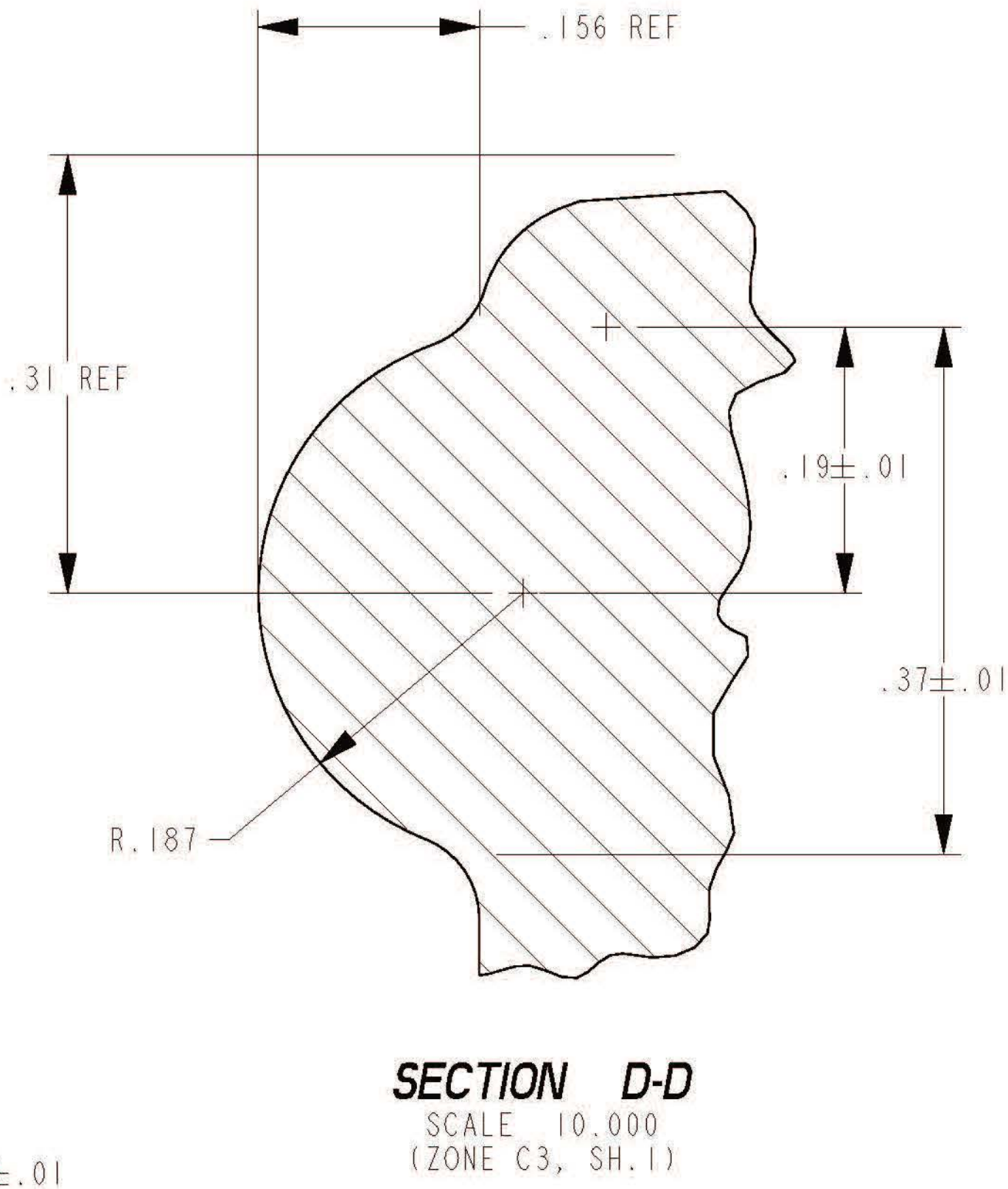
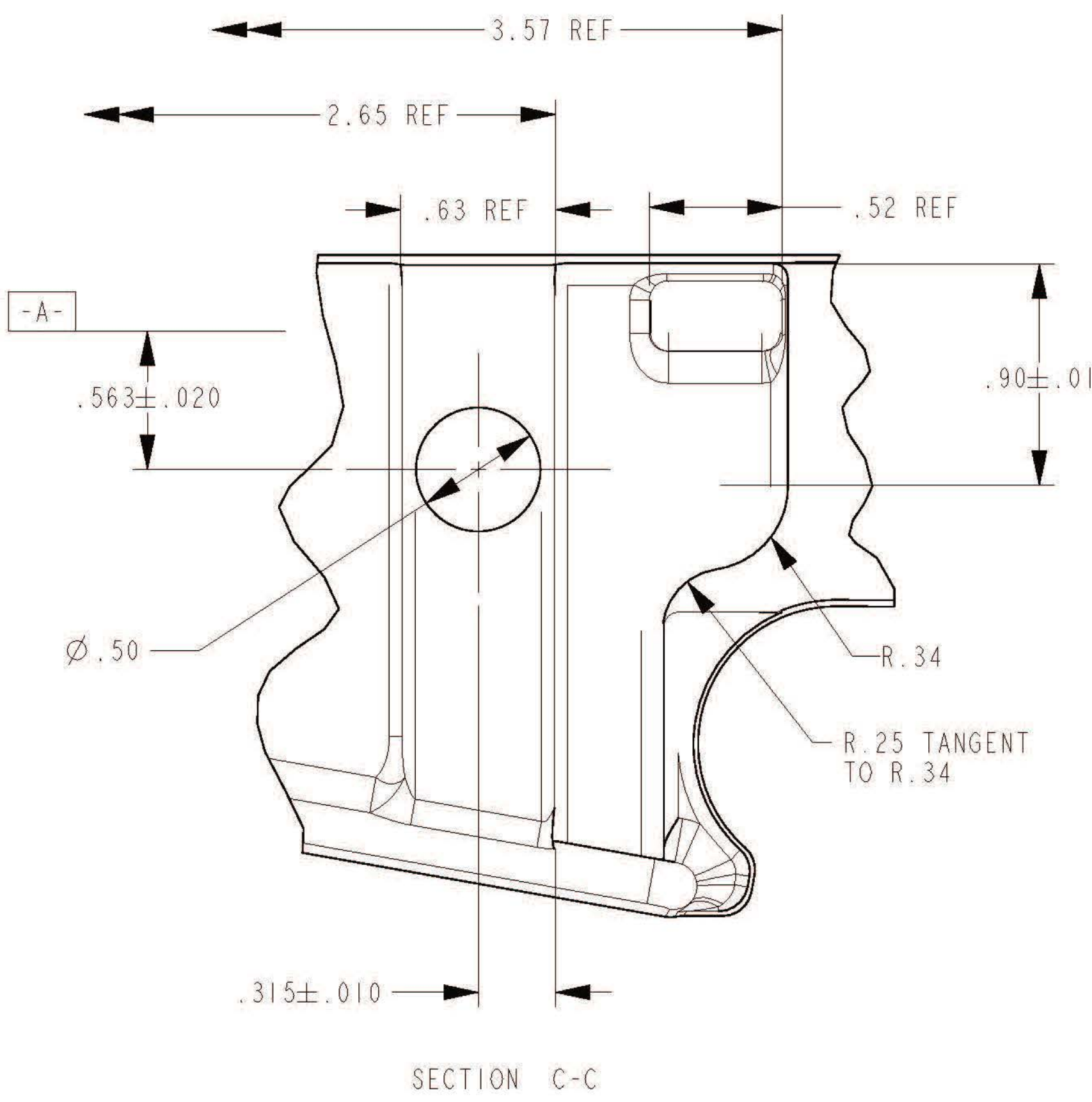
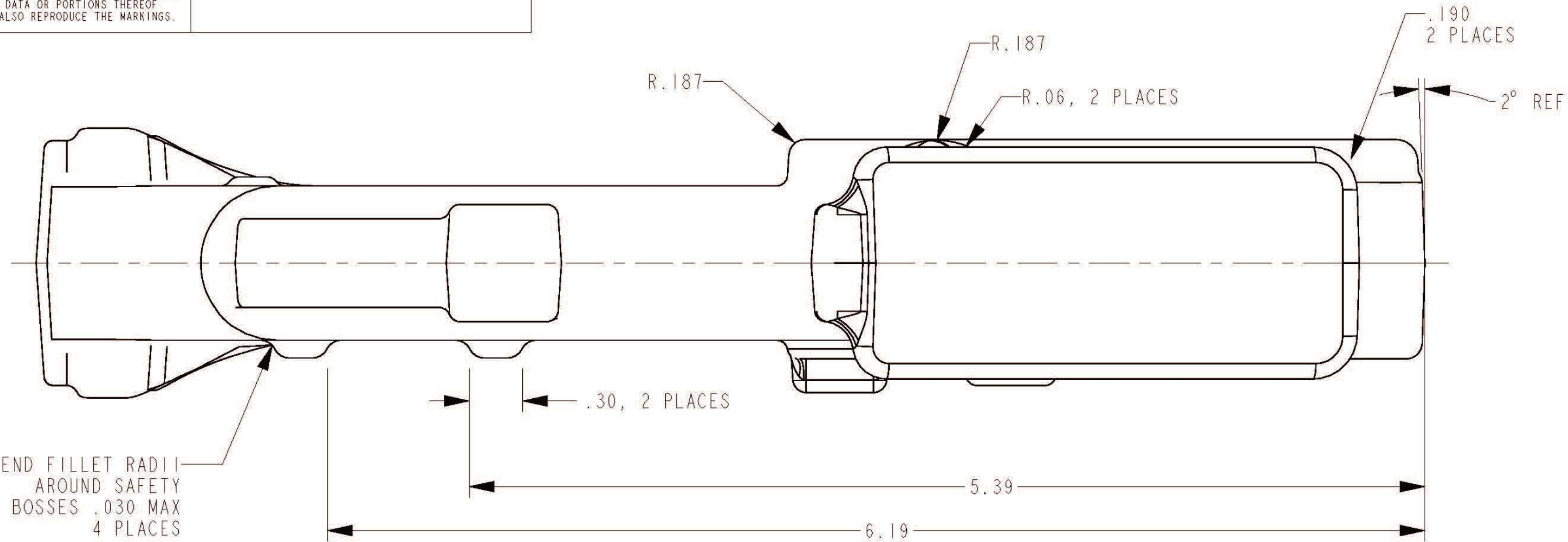
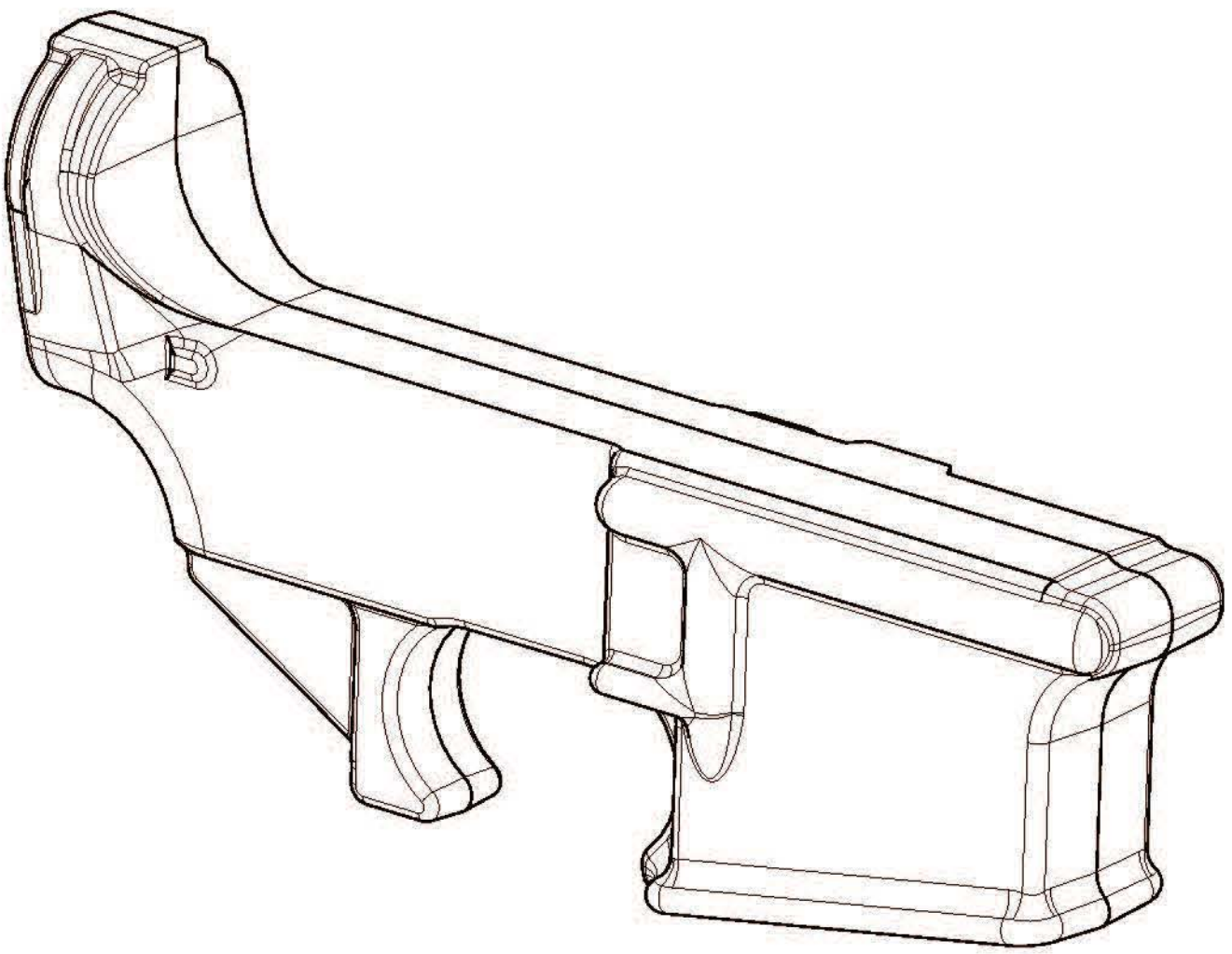
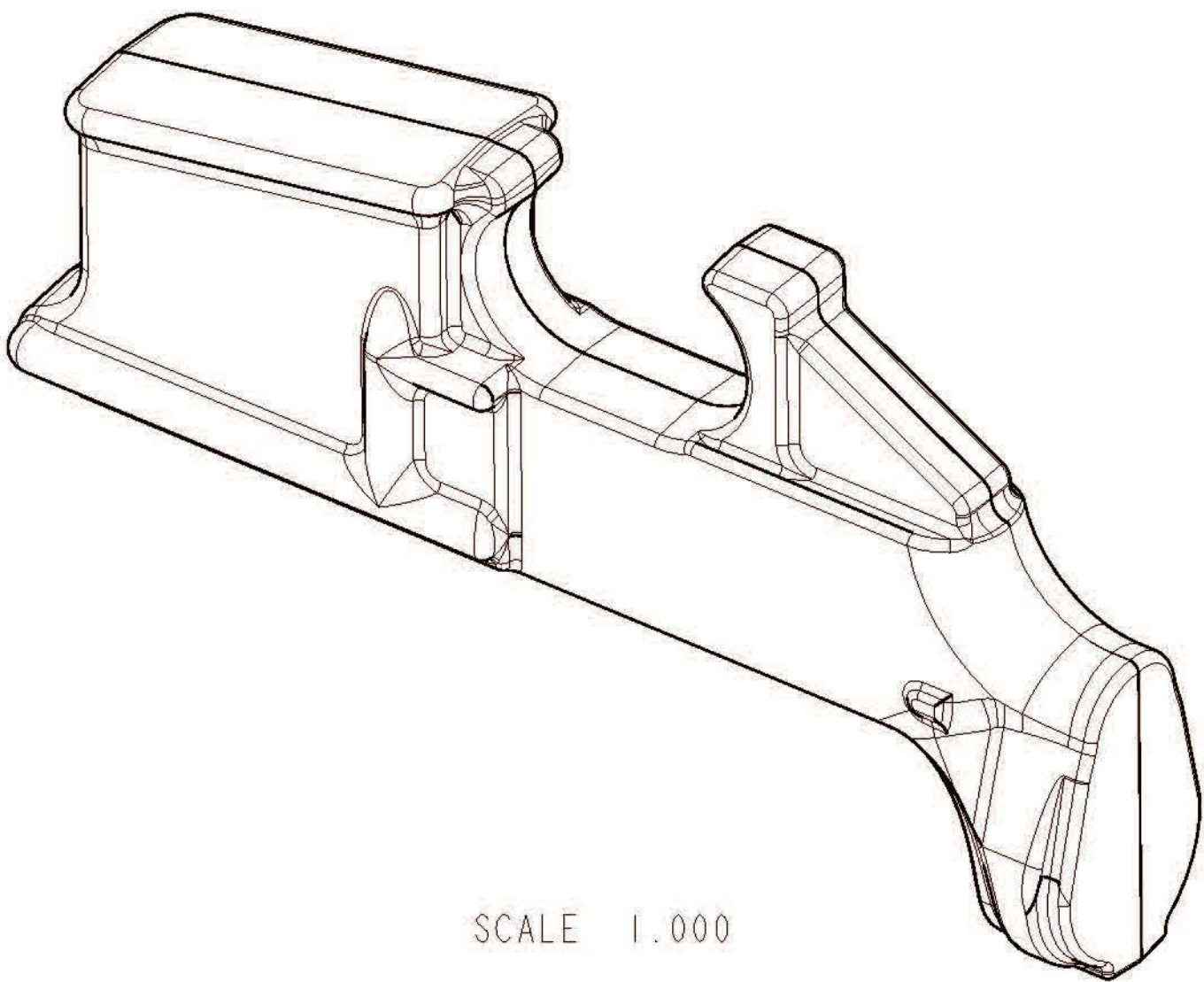
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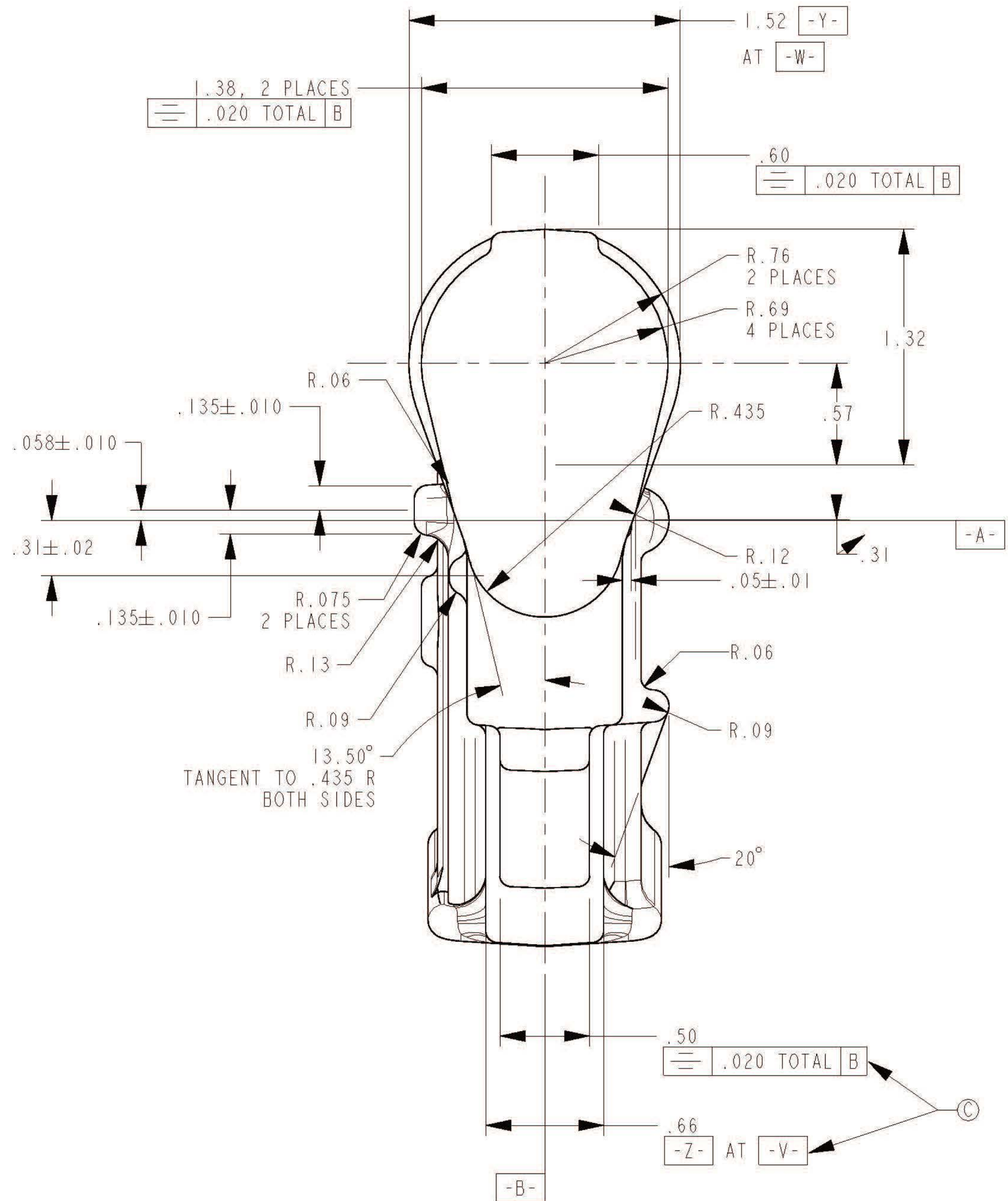
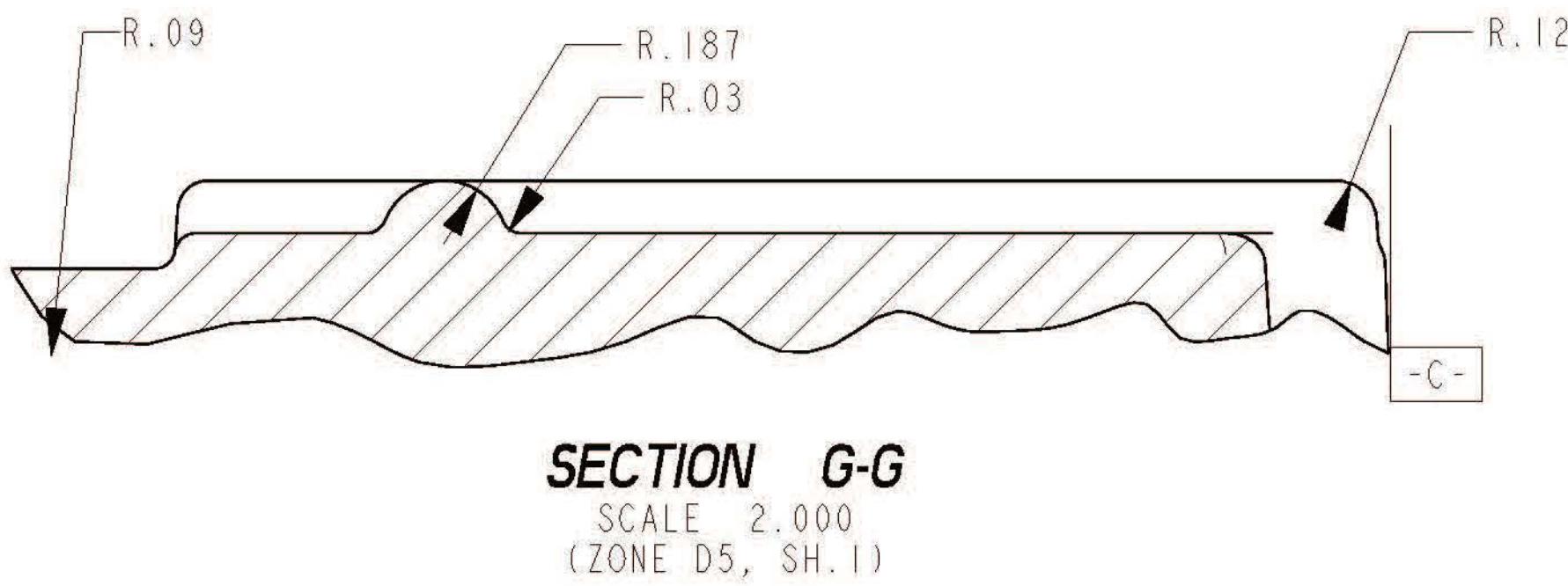
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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	M	NOR G153088 / 1991-07-16	1992-02-06	GHS
N/A	N	NOR G353058 / 1993-07-07	1993-09-01	RLV
-	T	NOR L253042 / 2002-08-05	2002-09-26	JJW
A	U	NOR L353161 / 2004-03-31	2004-08-13	RLV



VIEW H  
ALTERNATE CONFIGURATION  
SCALE 4.000  
(ZONE C3, SH.1)



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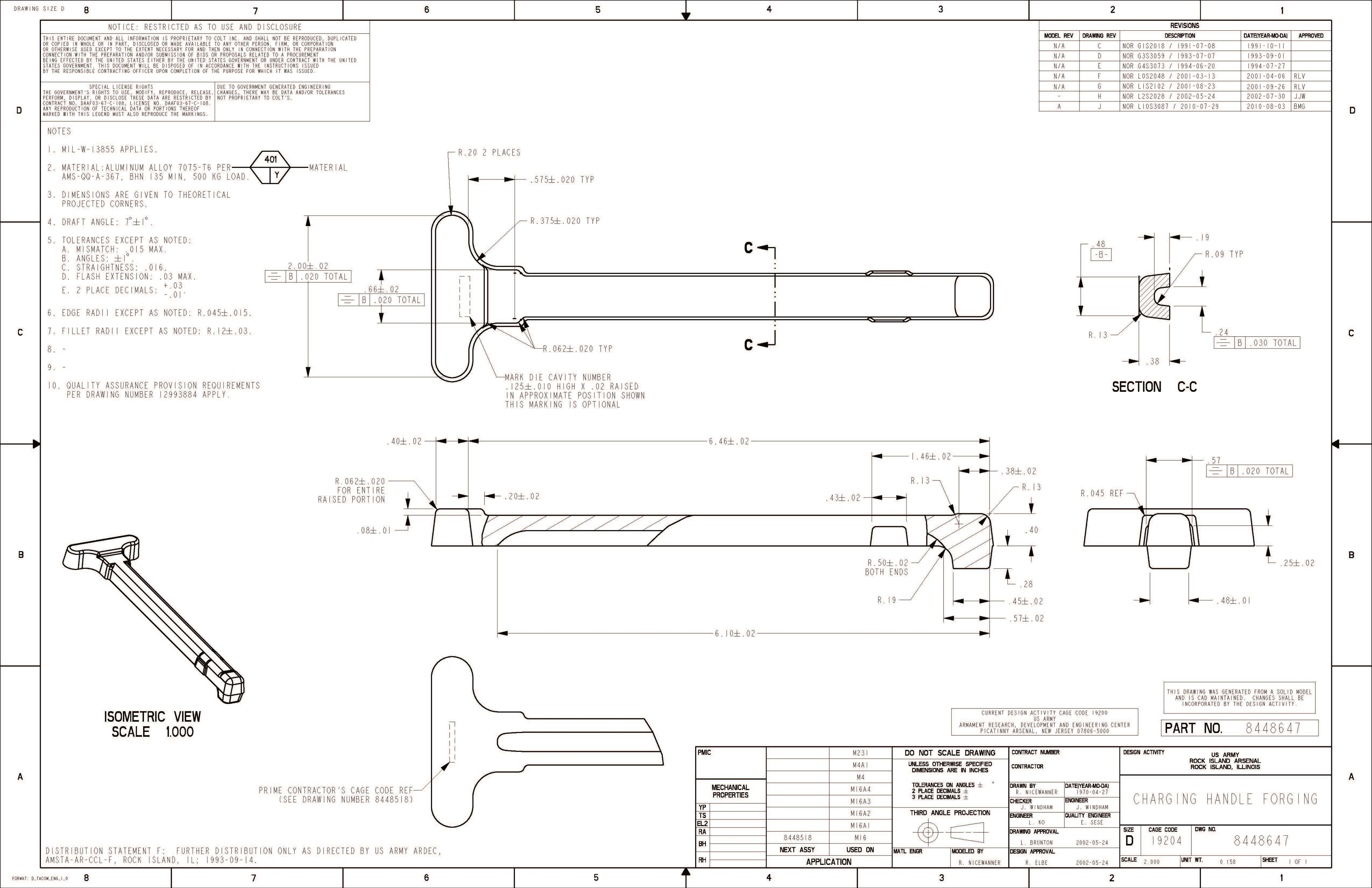
PART NO. 8448641

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
		M231		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS				
		M4A1										
MECHANICAL PROPERTIES		M4		TOLERANCES ON ANGLES ± °		DRAWN BY		DATE (YEAR-MO-DA)		LOWER RECEIVER FORGING		
		8448608		2 PLACE DECIMALS ±		D. NELSON-ESERV		1970-04-27				
YP	F9327036		3 PLACE DECIMALS ±		CHECKER		ENGINEER					
TS					ENGINEER		J. WINDHAM					
EL2	F8448608				ENGINEER		QUALITY ENGINEER					
RA					L. KO		E. SESE					
BH					DRAWING APPROVAL							
		NEXT ASSY		USED ON		L. BRUNTON		2002-08-05				
						DESIGN APPROVAL						
		APPLICATION				R. ELBE		2002-08-05				
</												











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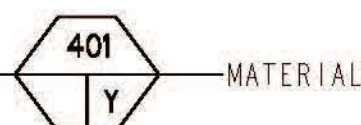
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## NOTES

- MIL-W-13855 APPLIES.
- MATERIAL: STEEL STRIP, TEMPER NO. 2 PER ASTM A 109 OR STEEL BAR, AISI 1018 TO 1020 PER ASTM A 576, FORGED PER MIL-S-46172, GRADE D.
- SURFACE FINISH:  $\sqrt{125}$  EXCEPT AS NOTED.
- BREAK EDGES  $R.045 \pm .015$  EXCEPT AS NOTED.
- DIE MISMATCH: .015 MAX.
- DRAFT ANGLE:  $7^\circ \pm 2^\circ$ .
- NO FLASH EXTENSION PERMISSIBLE.
- PARTING LINE: .08 MAX. TRIM FLAT.
- DIMENSIONS APPLY TO INTERSECTION OF STRAIGHT LINES.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.
- PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.
- HARDNESS: ROCKWELL B 68 TO 86 OR EQUIVALENT. TEST IN AREA NOTED.

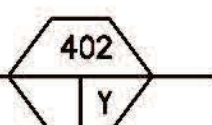


MATERIAL

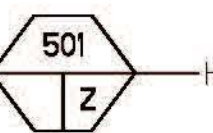
12-28 UNF-2B  
 $\pm .010$  TOTAL A

-A-

NOTE 12

R.250  $\pm .015$   
2 PLACES

PROTECTIVE FINISH



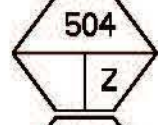
HARDNESS



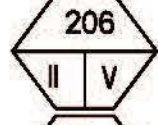
SALT SPRAY TEST



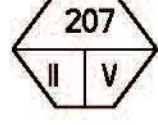
COATING WEIGHT



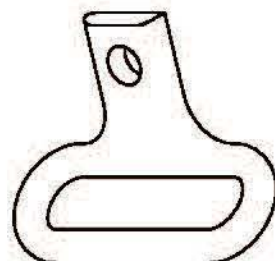
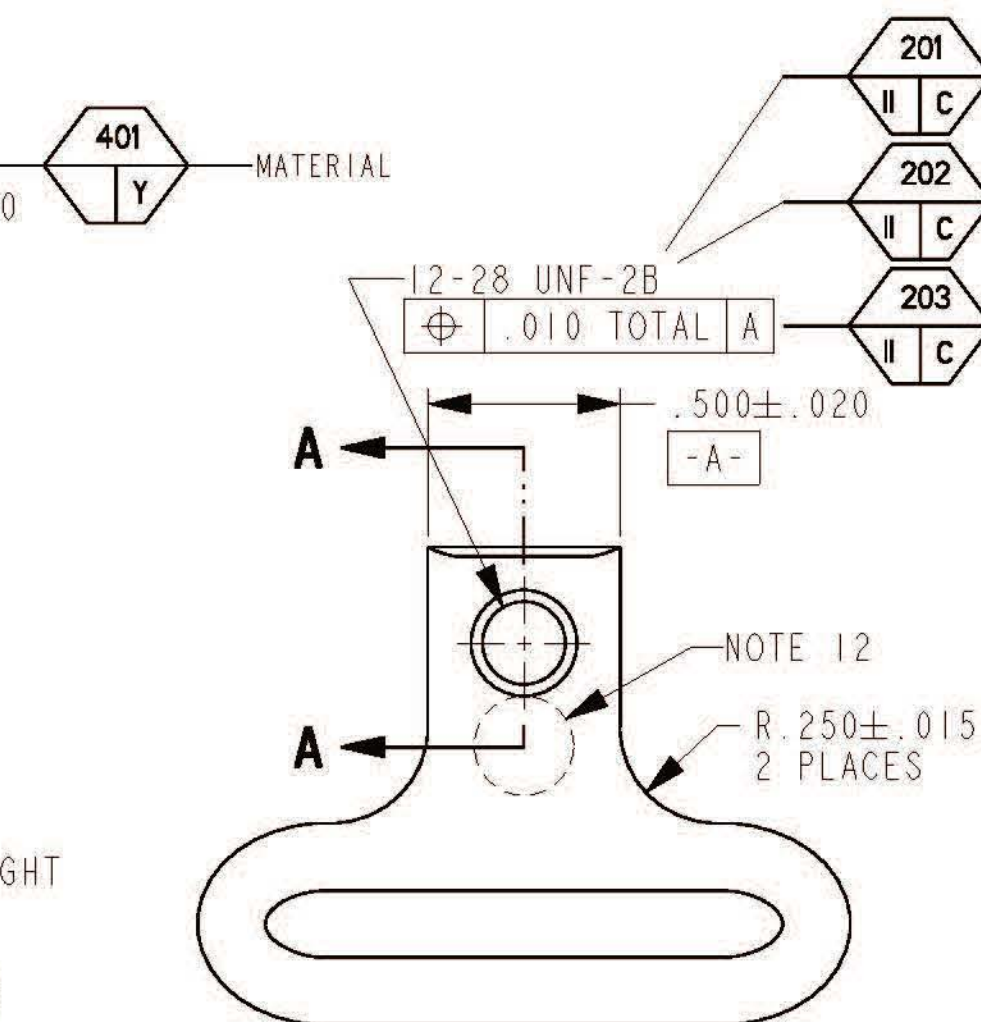
SUPPLEMENTARY OIL TREATMENT SALT SPRAY TEST



NO MISSING OR DEFECTIVE PROTECTIVE FINISH



WORKMANSHIP

ISOMETRIC VIEW  
SCALE 1.000FULL RADIUS  
2 PLACES

PITCH DIAMETER

MINOR DIAMETER

201 II C  
202 II C  
203 II C

204 II C

205 II C

206 II V

207 II V

208 II V

209 II V

210 II V

211 II V

212 II V

213 II V

214 II V

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## REVISIONS

DUE TO GOVERNMENT GENERATED ENGINEERING  
CHANGES, THERE MAY BE DATA AND/OR TOLERANCES  
NOT PROPRIETARY TO COLT'S.

1. MIL-W-13855 APPLIES.

2. MATERIAL: ALUMINUM ALLOY 6061 PER ASTM B 209.
3. SURFACE FINISH: 125/ EXCEPT AS NOTED.
4. BREAK EDGES .010±.005 EXCEPT AS NOTED.

5. ALL DIMENSIONS APPLY BEFORE FINAL PROTECTIVE FINISH.

6. HEAT TREAT TO TEMPER T6 PER AMS 2770.

7. PROTECTIVE FINISH: FINISH 7.5.2 OF MIL-STD-171 -  
AND SEAL. FILM THICKNESS SHALL BE .0010±.0002.  
COLOR SHALL BE APPROXIMATELY BLACK NO. 37038  
BUT NOT LIGHTER THAN NO. 36076 OF FED-STD-595.  
GRIT BLAST PRIOR TO FINISH TO PRODUCE A  
NON-REFLECTIVE MATTE SURFACE AFTER FINISH.

8. CONTRACTOR'S IDENTIFICATION IS OPTIONAL. IF IDENTIFICATION IS USED, IT MUST BE APPROVED BY THE GOVERNMENT.

9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING NUMBER 12993884 APPLY.

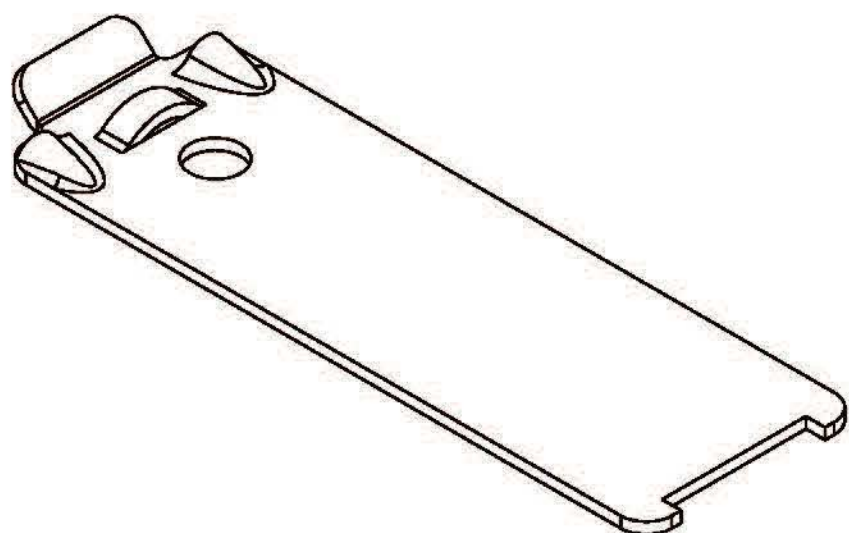
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402	
	Y

-PROTECTIVE FINISH

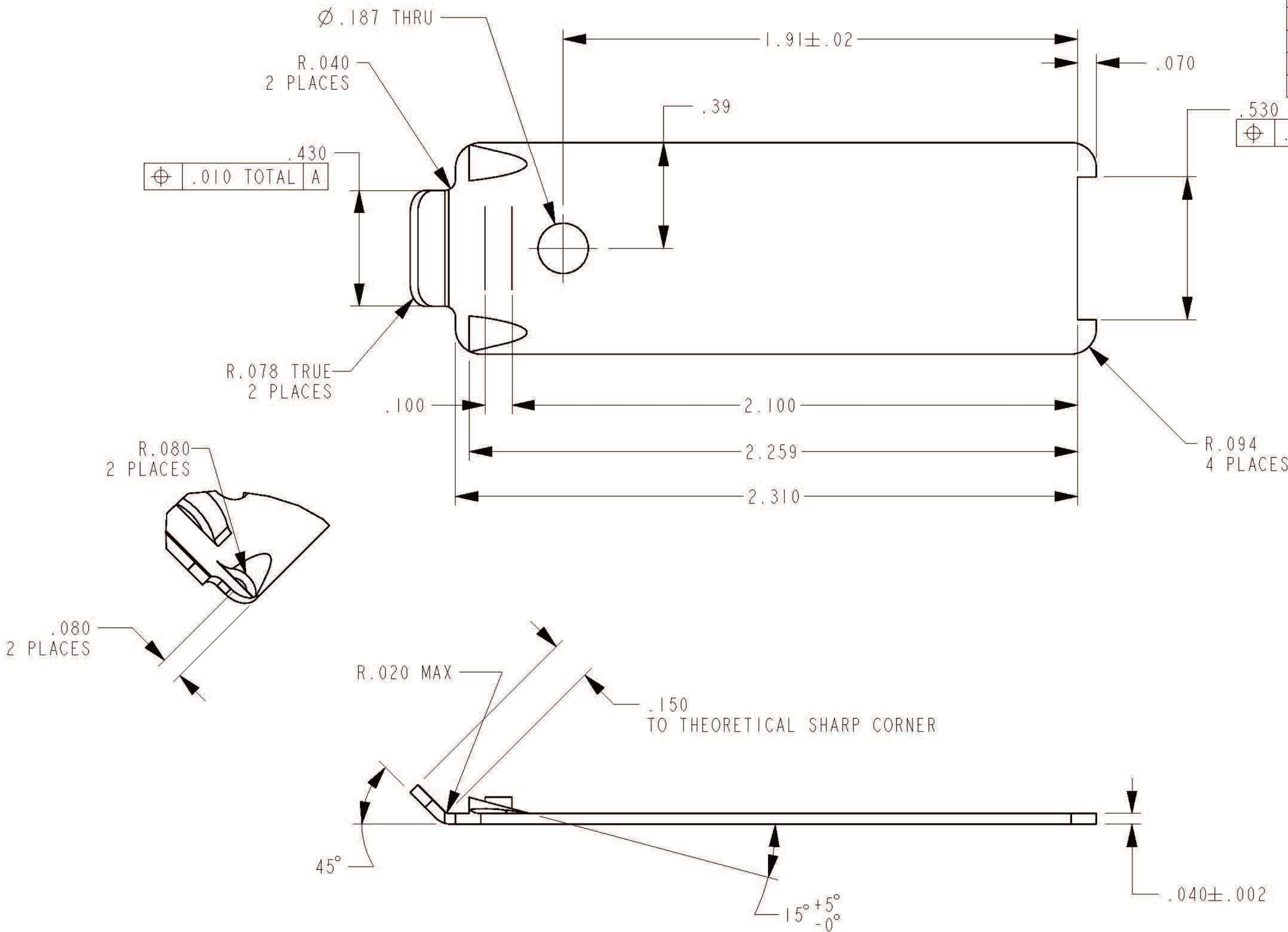
-MISSING OR DEFECTIVE PROTECTIVE FINISH

—WORKMANSHIP



ISOMETRIC VIEW  
SCALE 2.000

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC,  
AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.



⊕	.010 TOTAL	A
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Technical drawing of a mechanical part showing a cross-section. The drawing includes the following dimensions and tolerances:

- Overall width:  $7.86 \pm 0.002$
- Section line: -A-
- Radius: R.15
- Surface texture: .06
- Feature: .015 TOTAL A


—NOTE 8

.52			
⊕	.04	TOTAL	A

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

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INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 8448673

PMIC		M231	DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCES ON ANGLES ± 1° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
		M4A1			CONTRACTOR					
MECHANICAL PROPERTIES		M4			THIRD ANGLE PROJECTION 		DRAWN BY		DATE(YEAR-MO-DA)	
		M16A4	J. LOWDER - ESERV				1970-06-05			
		M16A3	CHECKER				ENGINEER			
YP					K. JOHNSON-ESERV		J. WINDHAM			
TS		M16A2			ENGINEER		QUALITY ENGINEER			
EL2					L. KO		E. SESE			
RA		13021312	M16A1	DRAWING APPROVAL		L. BRUNTON		2002-05-24		
BH		8448670	M16	DESIGN APPROVAL		R. ELBE		2002-05-24		
RI		NEXT ASSY	USED ON	MATL ENGR	MODELED BY	SCALE 3.000				
		APPLICATION				UNIT WT.		0.007443		
						SHEET		1 OF 1		
PLATE, BOTTOM, MAGAZINE										
SIZE		CAGE CODE		DWG NO.		8448673				
D		19204								



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- NOTES
1. MATERIAL: ALUMINUM ALLOY 6061 PER ASTM B 209.

2. SURFACE FINISH: 125/

3. ALL DIMENSIONS APPLY BEFORE FINISH.

4. HEAT TREAT TO TEMPER T6 PER AMS 2770, EXCEPT THAT AGING TIME AND TEMPERATURE ARE OPTIONAL. SEE NOTE 6. QUENCHANT TEMPERATURE SHALL START AT 115° F OR LESS AND RISE TO A 135° F MAXIMUM. MINIMUM BRINELL 80 (10MM BALL 500KG LOAD) OR EQUIVALENT (BARCOL 76 MINIMUM).

5. PROTECTIVE FINISH: FINISH 7.5.1 OF MIL-STD-171, EXCEPT THAT THICKNESS SHALL BE .0010±.0002.

6. APPLY SOLID FILM LUBRICANT MIL-L-45983 OR MIL-PRF-46010 OR AS5272. FILM THICKNESS SHALL BE .0002 TO .0005. CAUTION: THE HEAT CURING OF LUBRICANT SHALL BE COINCIDENTAL WITH THE ARTIFICIAL AGING TO TEMPER T6 PER NOTE 4, PROVIDED THAT THE COMPONENT HAS BEEN SOLUTION HEAT TREATED PRIOR TO APPLICATION OF LUBRICANT.

7. SPOT WELD TWELVE SPACES PER MIL-W-45210, SIX WELDS, EQUALLY SPACED TO ±.03, BOTH ENDS, EXCEPT THAT WELD BUTT SHALL BE Ø.10 MIN. EACH WELD SHALL SUPPORT A STATIC COMPRESSIVE LOAD OF 100 LBS APPLIED WITHIN LENGTH -L- OPPOSITE EACH WELD IN THE DIRECTION OF -M-.

8. SYMMETRY REQUIRED PER .883 DIMENSION APPLIES 2.400 LENGTH ONLY, SEE NOTE 9.

9. MIL-W-13855 APPLIES.

10. INSCRIPTIONS:

A. PRIME CONTRACTOR'S CAGE CODE AND MONTH AND YEAR, +/- TWO MONTHS, OF MANUFACTURE.

B. OPTIONAL MARKING MAY INCLUDE PRIME CONTRACTOR'S NAME, CITY, AND STATE.

11. MARKINGS ON MAGAZINE BOX SHALL BE INSCRIBED PRIOR TO APPLICATION OF HARD COAT AND SOLID FILM LUBRICANT. LETTERS SHALL BE APPROXIMATELY 0.1 HIGH X .005±.005 DEEP. MARKINGS SHALL NOT EXTEND IN AREA 1.0 INCH FROM TOP OR 0.5 INCH FROM BOTTOM OF MAGAZINE BOX.

12. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

- 301

Z

SPOT WELD TEST/ SEE SHT3
- 302

Z

DESTRUCTIVE TEST/ SEE SHT3
- 402

Y

ANODIC COATING
- 403

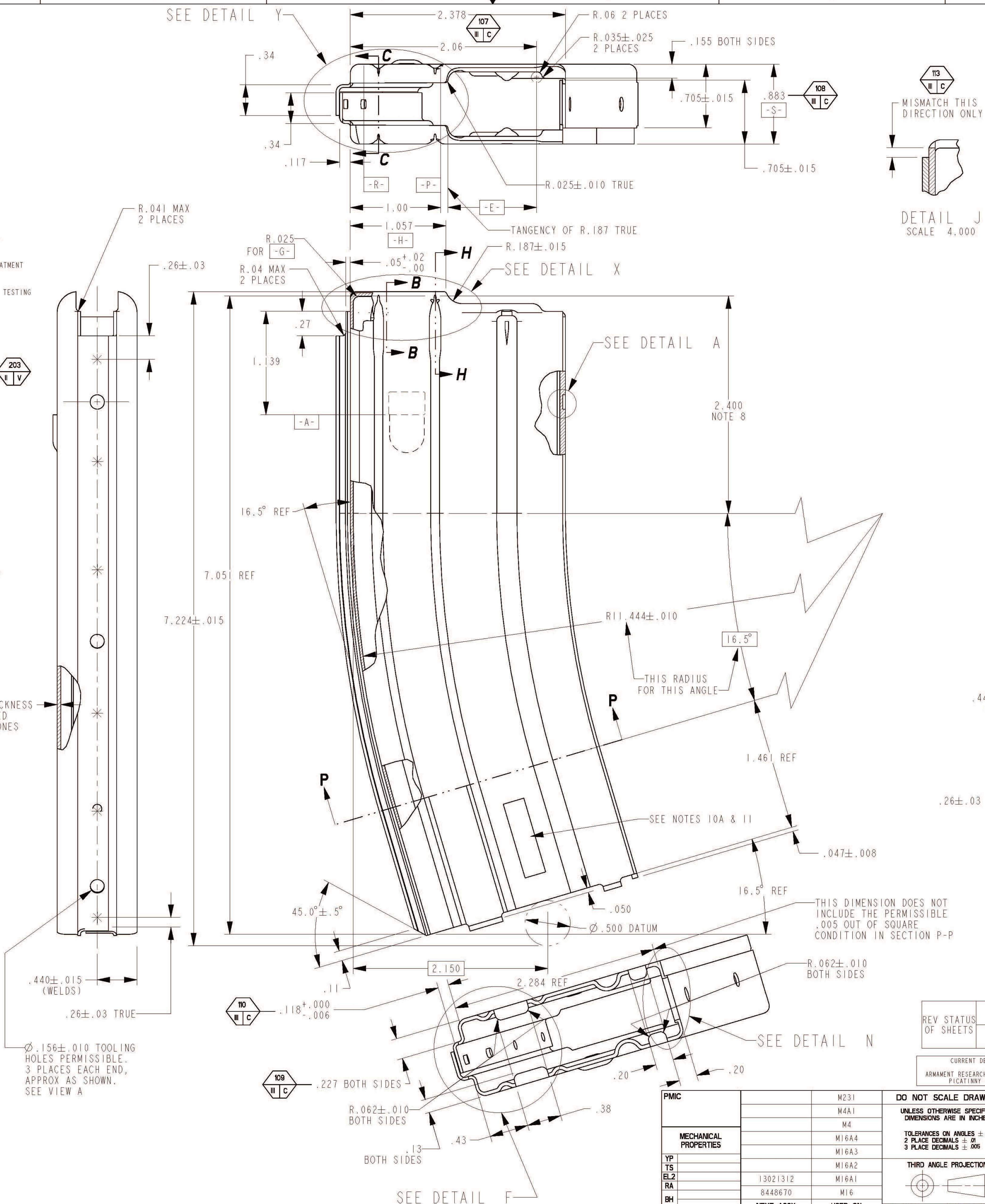
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BOX, MAGAZINE
- 202

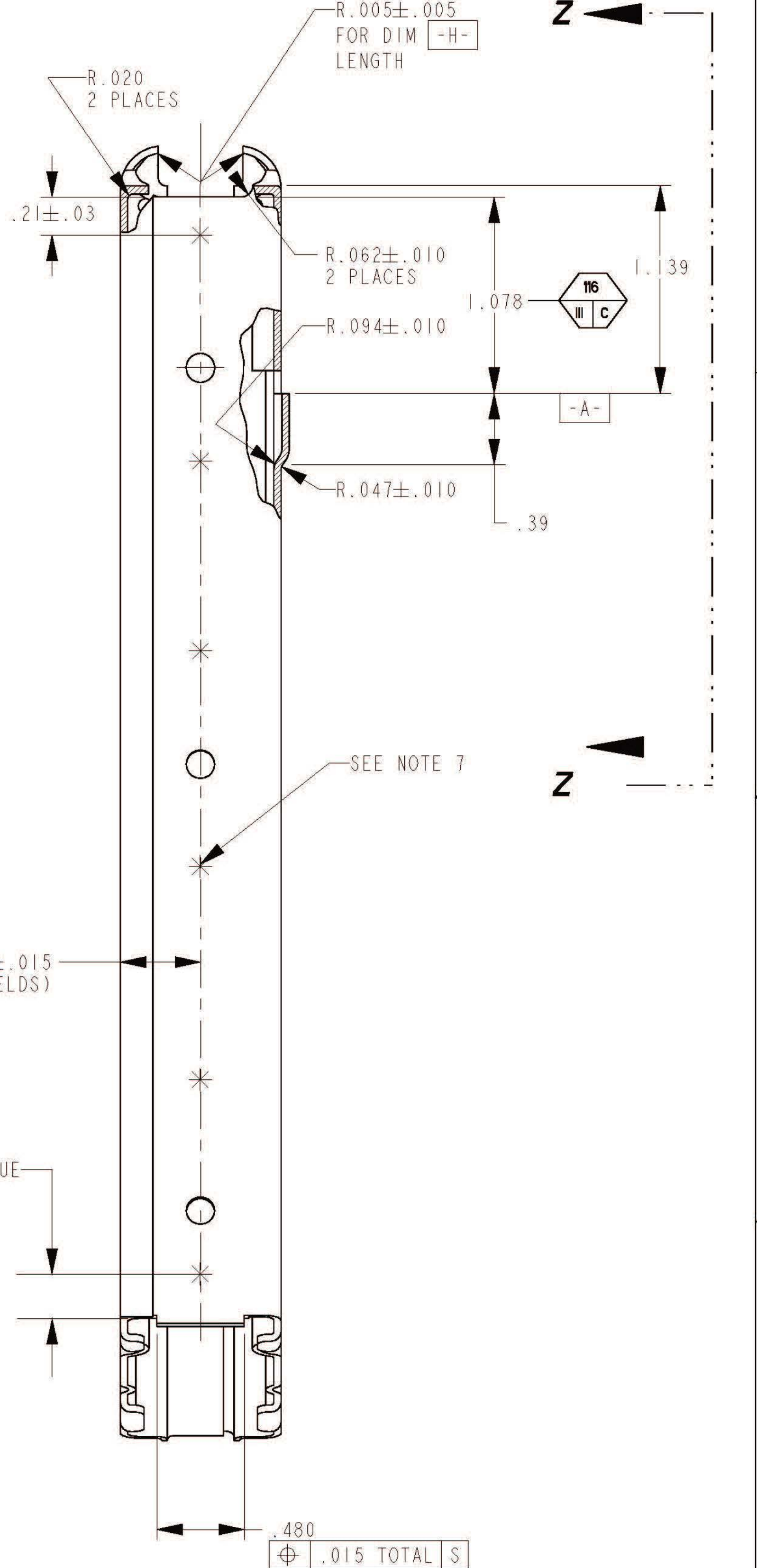
II V

WORKMANSHIP

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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	T	NOR L933017 / 1999-10-06	1999-10-28	BAC
N/A	U	NOR L053023 / 2000-06-30	2000-08-03	RLV
N/A	V	NOR L152102 / 2001-08-23	2001-09-26	RLV
-	W	NOR L253028 / 2002-05-24	2002-07-30	JJW
A	Y	NOR L253063 / 2002-10-17	2003-03-11	RJC
B	AA	NOR L253089 / 2003-03-11	2003-04-30	RJC
C	AB	NOR L353161 / 2004-03-31	2004-08-13	RLV
D	AC	NOR L0455160 / 2005-02-09	2005-03-03	BWG
E	AD	NOR L0553064 / 2005-08-09	2005-09-19	BWG
F	AE	NOR L0553081 / 2005-10-20	2005-11-08	BWG
G	AF	NOR L0653007 / 2006-03-09	2006-03-29	BWG
H	AG	NOR L0653024 / 2006-03-29	2006-04-13	BWG
J	AH	NOR L0653042 / 2006-05-11	2006-06-02	BWG
K	AJ	NOR L0853021 / 2008-03-11	2008-03-18	BWG
L	AK	NOR L0853095 / 2008-08-25	2008-09-04	BWG
M	AL	NOR L1153031 / 2011-04-14	2011-04-21	RLV



REV STATUS OF SHEETS	REV	AL	AL	AL
	SHEET	1	2	3

CURRENT DESIGN ACTIVITY CAGE CODE 19200

US ARMY

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

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PART NO. 8448674

PMIC		M231	DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
		M4A1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY	
		M4					ROCK ISLAND ARSENAL	
		M16A4	TOLERANCES ON ANGLES ± 1°		DRAWN BY		BOX, MAGAZINE,	
		M16A2	2 PLACE DECIMALS ± .01		J. LOWDER - ESERV		30 ROUND	
		M16A1	3 PLACE DECIMALS ± .005		CHECKER			
		M16	THIRD ANGLE PROJECTION		K. JOHNSON-ESERV			
					ENGINEER			
					L. KO			
					QUALITY ENGINEER			
					E. SESE			
					DRAWING APPROVAL			
					L. BRINTON			
					2002-05-24			
					DESIGN APPROVAL			
					R. ELBE			
					2002-05-24			







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REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
C	AB	NOR L353161 / 2004-03-31	2004-08-13	RLV
D	AC	NOR L0555160 / 2005-02-09	2005-03-03	BMG
E	AD	NOR L0553064 / 2005-08-09	2005-09-19	BMG
F	AE	NOR L0553081 / 2005-10-20	2005-11-08	BMG
G	AF	NOR L0653007 / 2006-03-09	2006-03-29	BMG
H	AG	NOR L0653024 / 2006-03-29	2006-04-13	BMG
J	AH	NOR L0653042 / 2006-05-11	2006-06-02	BMG
K	AJ	NOR L0853021 / 2008-03-11	2008-03-18	BMG
L	AK	NOR L0853095 / 2008-08-25	2008-09-04	BMG
M	AL	NOR L1153031 / 2011-04-14	2011-04-21	RLV

STM-301: SPOT WELD TEST.

APPLY UNIFORM STATIC LOAD OF 100 POUNDS PRESSURE TO EACH WELD (12) USING GAGE NUMBER 11837923. THE PRESSURE SHALL BE APPLIED WITHIN LENGTH -L- OPPOSITE EACH WELD IN THE DIRECTION OF -M-. EACH SPOT WELD SHALL BE INSPECTED APPLYING A .004 FEELER GAGE OR EQUIVALENT THROUGHOUT LENGTH OF MAGAZINE; NO PASSAGE OF THE FEELER GAGE THROUGH THE SPOT WELD WILL BE ALLOWED. FAILURE OF ANY SPOT WELD SHALL BE CAUSE FOR REJECTION OF THAT INDIVIDUAL MAGAZINE. REJECTION OF MAGAZINES IN EXCESS OF THAT ALLOWED BY THE AQL SPECIFIED SHALL BE CAUSE FOR REJECTION OF THE LOT QUANTITY REPRESENTED.

THE FOLLOWING IS THE SPOT WELD DEFECT CRITERIA:

(A) CRACKS IN THE WELD:

(1) CRACKS IN THE WELD AREA SHALL NOT EXCEED 50 PERCENT OF THE DIAMETER OF THE WELD.

(2) CRACKS SHALL BE WITHIN THE WELD DIAMETER ONLY.

(B) POROSITY IN THE WELD:

(1) POROUS HOLES (SEVERAL SMALL HOLES WITHIN A SMALL AREA) SHALL NOT EXCEED 50 PERCENT OF THE DIAMETER OF THE WELD.

(2) THE POROSITY SHALL BE WITHIN THE WELD DIAMETER ONLY.

(C) BURN HOLES IN THE WELD:

(1) BURN HOLES (ONE HOLE IN WELD) SHALL NOT EXCEED 25 PERCENT OF THE WELD AREA.

(2) BURN HOLES SHALL BE WITHIN THE WELD DIAMETER ONLY AND SHALL NOT PENETRATE THROUGH BOTH LAYERS OF THE WELDED METAL.

(D) LIMITS:

(1) EACH WELD THAT CONTAINS A DEFECT SHALL PASS THE 100 POUND LOAD TEST OF NOTE 7 OF DRAWING 8448674.

(2) THERE SHALL BE NO MORE THAN TWO WELD DEFECTS PER SIDE OF THE MAGAZINE BOX ASSEMBLY AND NOT MORE THAN THREE WELD DEFECTS PER MAGAZINE BOX ASSEMBLY TOTAL.

(3) THE DEFECTS DESCRIBED IN PARAGRAPH 1A, 1B, AND 1C ARE CUMULATIVE, I.E. ONE CRACK AND ONE BURN HOLE ON A MAGAZINE BOX ASSEMBLY COUNTS AS TWO DEFECTS.

STM-302: DESTRUCTIVE TEST.

ONE MAGAZINE FROM EACH INSPECTION LOT SHALL BE RANDOMLY SELECTED BY A GOVERNMENT REPRESENTATIVE AND INSPECTED FOR THE FOLLOWING DIMENSIONAL REQUIREMENTS OF DRAWING F8448674, SHEET 2 OF 3.

(A) R.04 AT 1.068 LOCATION (SECTION E-E).

(B) 1.068±.005 (SECTION E-E).

(C) .179±.002 (SECTION E-E).

(D) R.031±.005 (SECTION G-G).

BOTH HALVES OF THE MAGAZINE SHALL BE INSPECTED. A GOVERNMENT REPRESENTATIVE SHALL WITNESS THE INSPECTION.

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

CURRENT DESIGN ACTIVITY CAGE CODE 19200

US ARMY

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO.

8448674

DESIGN ACTIVITY

US ARMY

ROCK ISLAND ARSENAL

ROCK ISLAND, ILLINOIS

BOX, MAGAZINE,

30 ROUND

SIZE

CAGE CODE

DWG NO.

F

19204

8448674

SCALE

UNIT WT.

SHEET

2.000

0.185

3 OF 3

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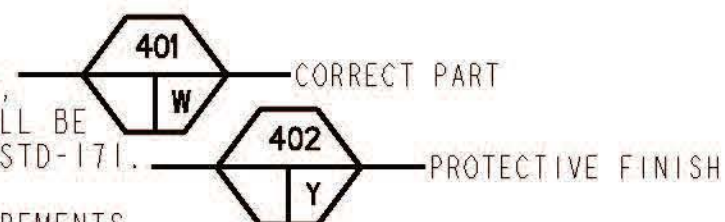
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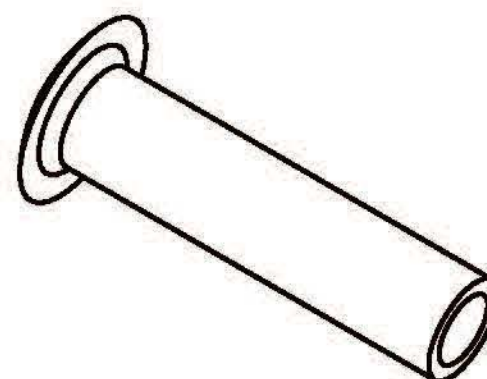


**APPROVED**

3. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.



MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	A	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	B	NOR WIS0003 / 1981-03-27	1983-09-14	
N/A	C	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	D	NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	E	NOR L3S3133 / 2003-10-21	2003-11-12	RJC
B	F	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
C	G	NOR L08S3089 / 2008-08-15	2008-09-02	AMW



ISOMETRIC VIEW

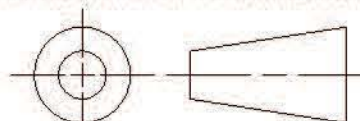
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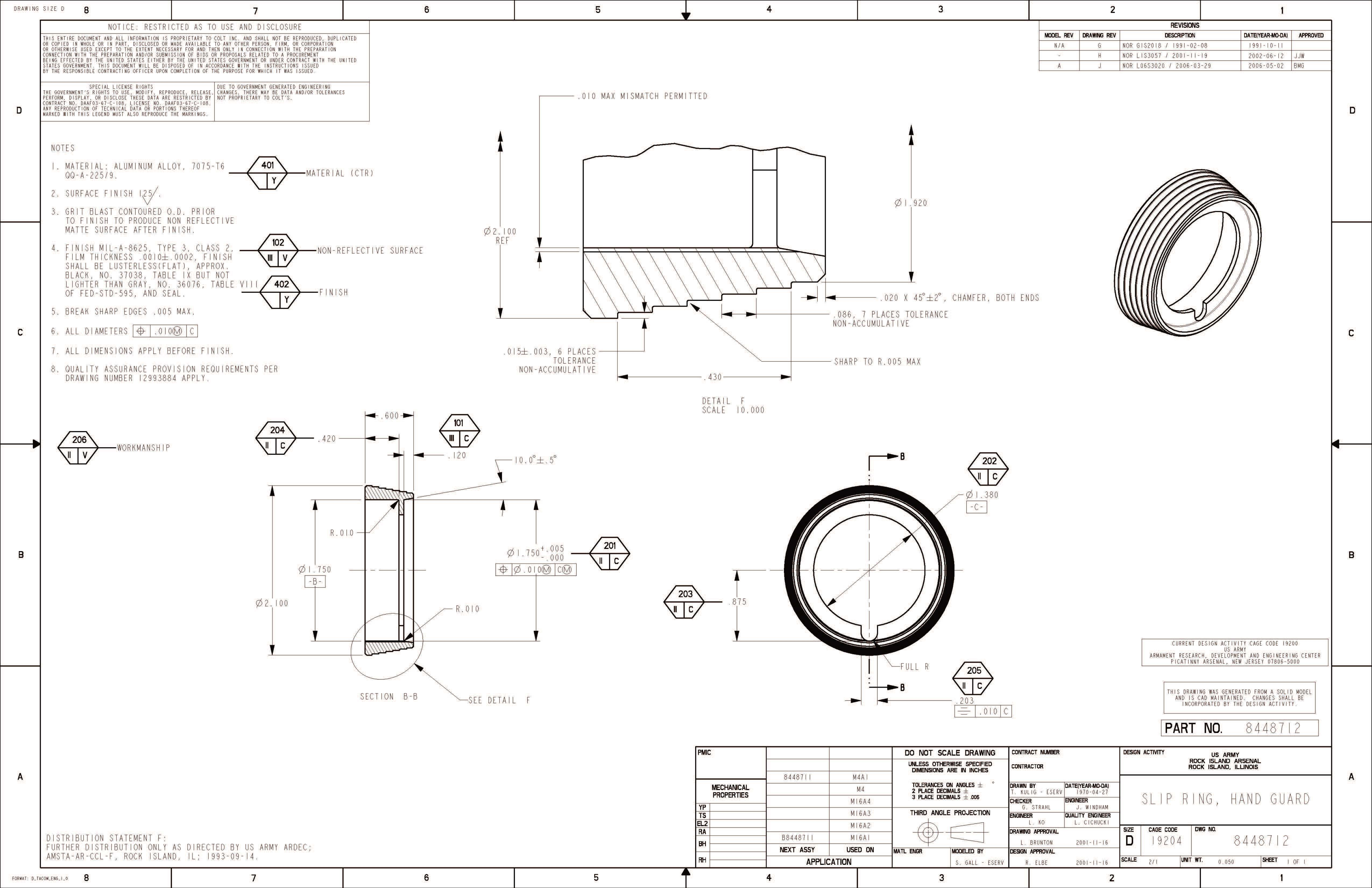
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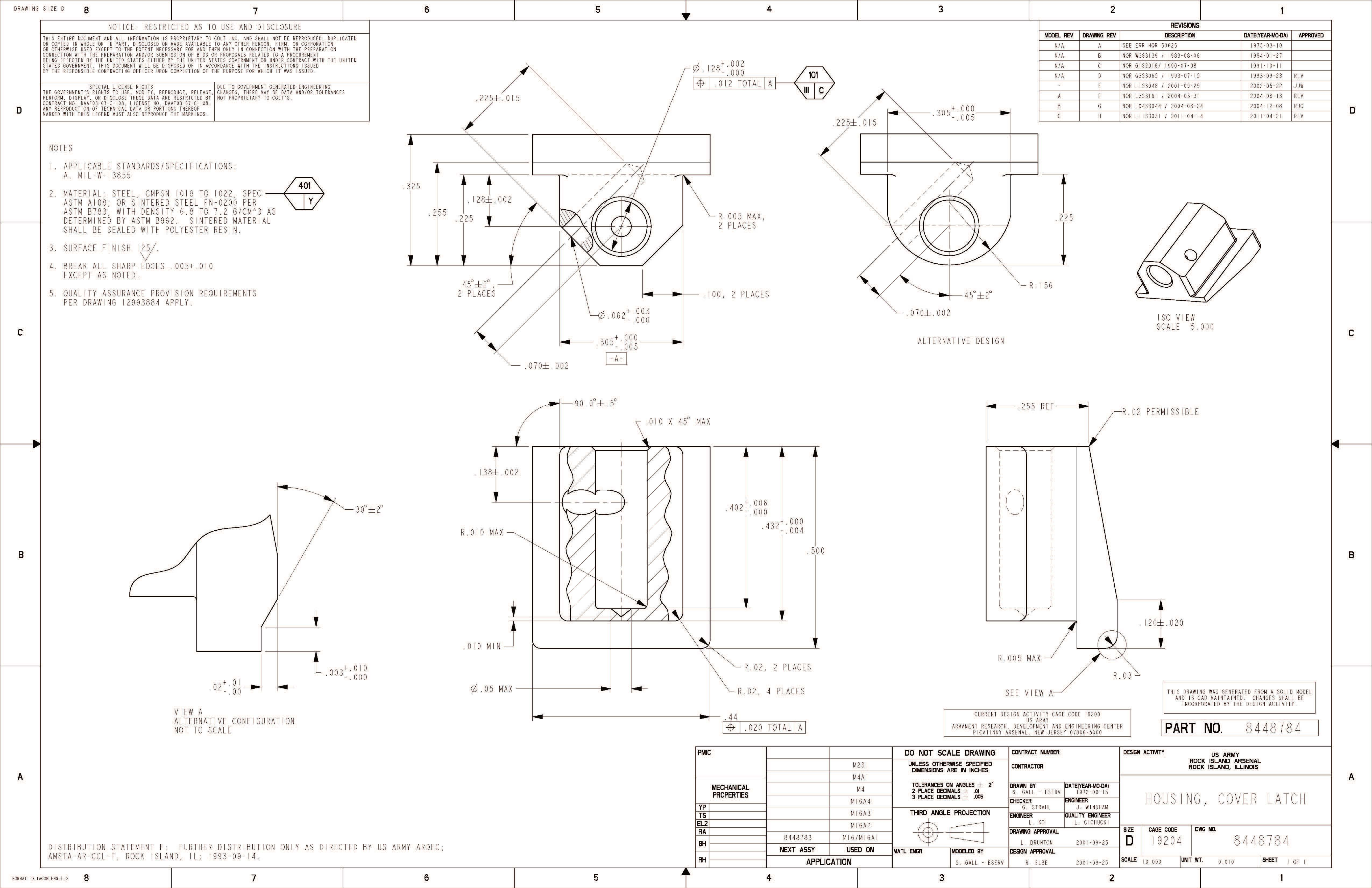
PART NO. 8448697

PMIC		12997148	M203	DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY					
		12972680	M4A1	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS					
		12598107	M4					RIVET					
MECHANICAL PROPERTIES		12598106	M16A4										
YP		9349124	M16A3										
TS		9349057	M16A2	TOLERANCE ON ANGLES $\pm$ ° 2 PLACE DECIMALS $\pm$ 3 PLACE DECIMALS $\pm$		DRAWN BY		DATE (YEAR-MO-DA)					
EL2		8448565	M16A1			G. STRAHL		1972-04-11					
RA		8448300	M16			J. WINDHAM		J. WINDHAM					
BH				THIRD ANGLE PROJECTION		ENGINEER		QUALITY ENGINEER					
RH						L. KO		L. CICHUCKI					
		NEXT ASSY				USED ON		DRAWING APPROVAL		SIZE		CAGE CODE	DWG NO.
		APPLICATION						L. BRUNTON		2001-11-16		B	19204
						DESIGN APPROVAL				SCALE		UNIT WT	SHEET
				MATL ENGR		MODELED BY		R. ELBE		5.000		0.00168	1 OF 1
						G. STRAHL		2001-11-16					

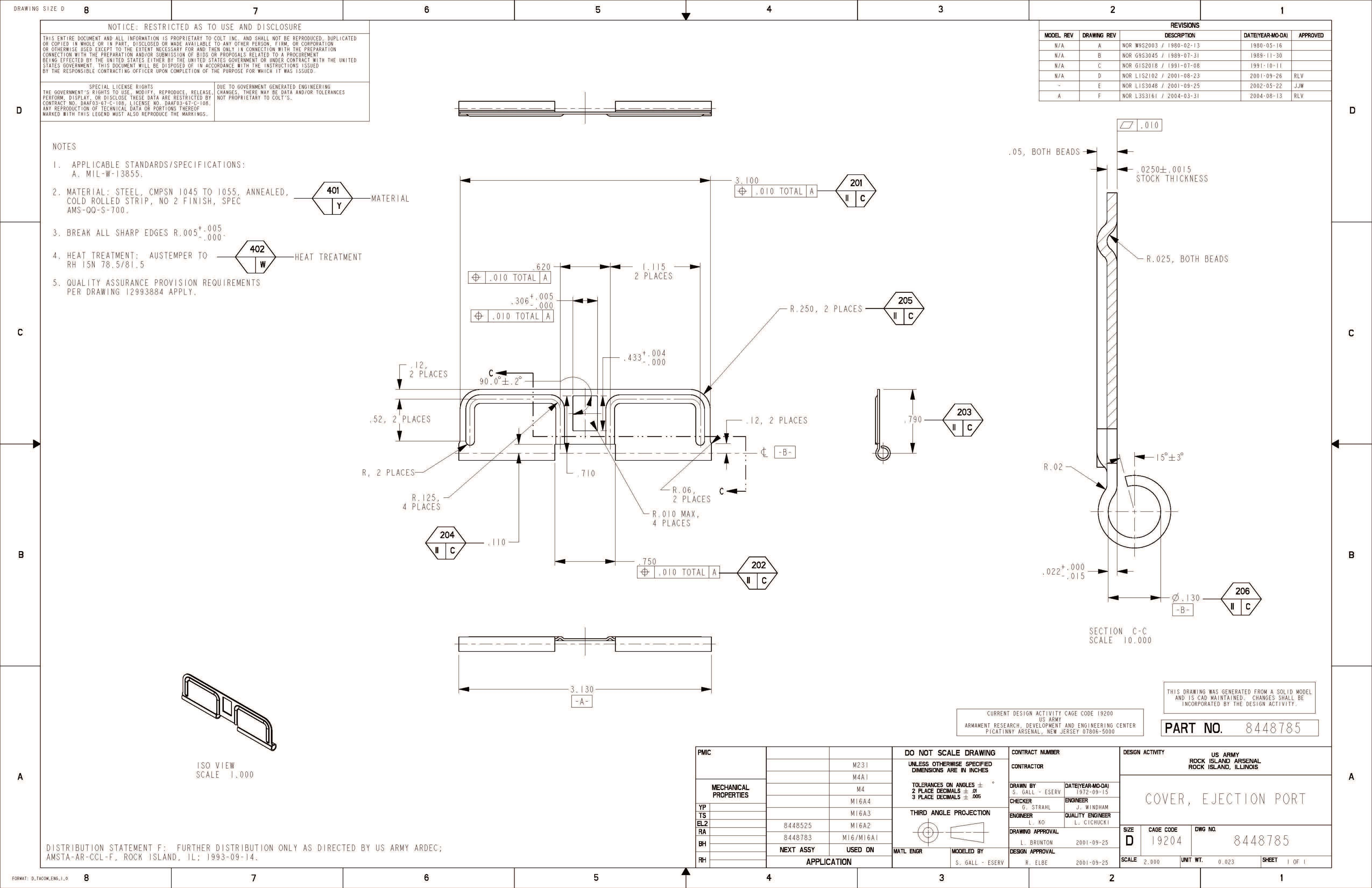










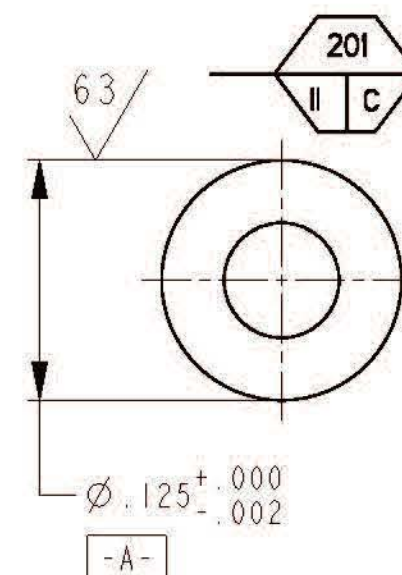
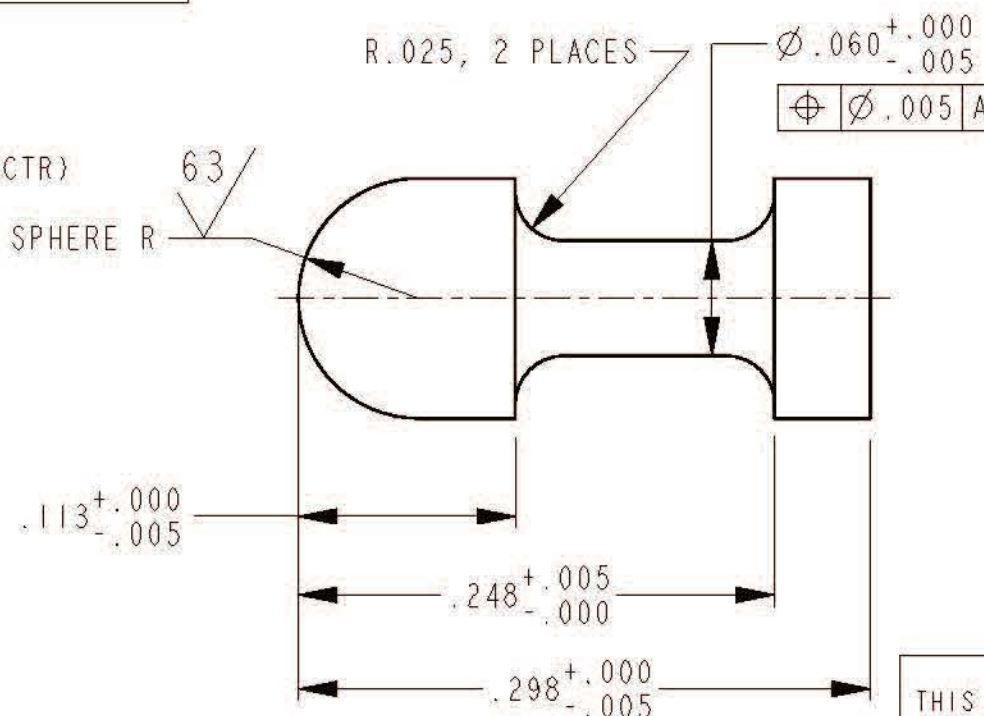
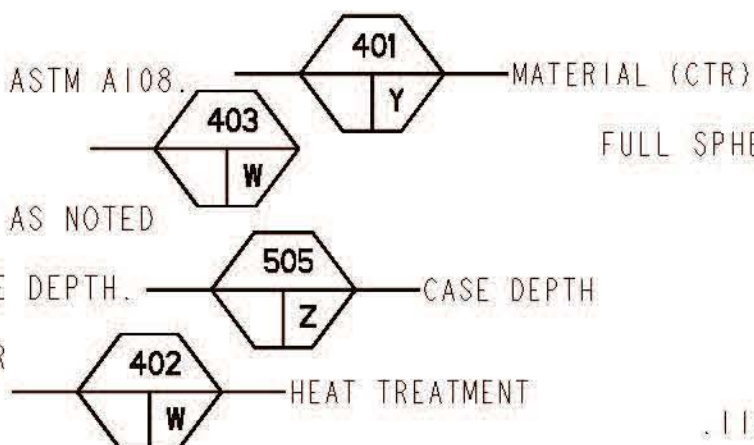




MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	A	NOR W9S2009 / 1980-02-13	1980-05-16	
N/A	B	NOR W3S2023 / 1983-06-06	1983-09-14	
N/A	C	NOR G1S2018 / 1991-07-08	1991-10-11	
-	D	NOR L1S3048 / 2001-09-25	2002-05-22	JJW
A	E	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

DUE TO GOVERNMENT GENERATED ENGINEERING  
CHANGES, THERE MAY BE DATA AND/OR TOLERANCES  
NOT PROPRIETARY TO COIT'S

8. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING 12993884 APPLY.



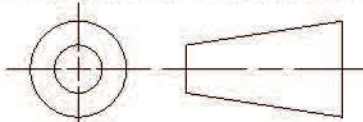
THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

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CURRENT DESIGN ACTIVITY CAGE CODE 19200  
U.S. ARMY

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO.	8448786
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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS			
MECHANICAL PROPERTIES			M4A1	TOLERANCE ON ANGLES $\pm$ ° 2 PLACE DECIMALS $\pm$ .01 3 PLACE DECIMALS $\pm$ .005		DRAWN BY B NICEWANNER		DATE (YEAR-MO-DA) 1972-09-15		LATCH, COVER	
			M4			CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM			
			M16A4			ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI			
						DRAWING APPROVAL L. BRUNTON		2001-09-25			
YP		8448525	M16A3	THIRD ANGLE PROJECTION						SIZE B	
TS										CAGE CODE 19204	
EL2		D8448525	M16A2							DWG NO. 8448786	
RA		8448525	M16/M16A1								
BH		NEXT ASSY	USED ON								
RH		APPLICATION									
				MATL ENGR		MODELED BY B NICEWANNER		DESIGN APPROVAL R. ELBE		2001-09-25	
								SCALE 10/1		UNIT WT 0.001	
										SHEET 1 OF 1	



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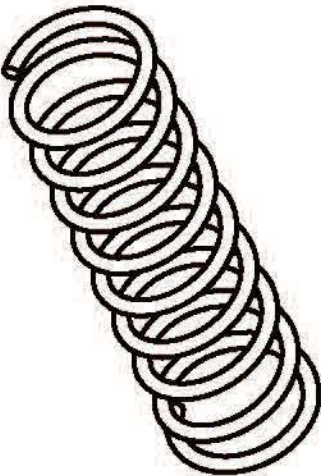
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NOTES

- 1. MIL-W-13855 APPLIES.
- 2. MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
- 3. FINISH 5.4.1 OF MIL-STD-171.
- 4. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900°F±10°F FOR ONE HOUR. AIR COOL.
- 5. BREAK SHARP EDGES .003+.012.
- 6. HARDNESS 15N 84.5 MIN.
- 7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	E	NOR GIS2018 / 1991-07-08	1991-10-11	
N/A	F	NOR G2S3016 / 1992-02-13	1992-03-27	
-	G	NOR LIS3048 / 2001-09-25	2002-05-22	JJW
A	H	NOR L06S3020 / 2006-03-29	2006-05-02	BMG

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER	.0120±.0003
COIL DIAMETER (O.D.)	.120±.002
FREE LENGTH	.413 REF
TOTAL COILS	8 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .201	.80 LB±.08 LB
LOAD AT COMPRESSED LENGTH OF	-----
SPRING RATE	3.77 LB/IN REF
SOLID LENGTH	.0984 MAX
TYPE OF ENDS	CLOSED
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572	

CURRENT DESIGN ACTIVITY CAGE CODE 19200  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

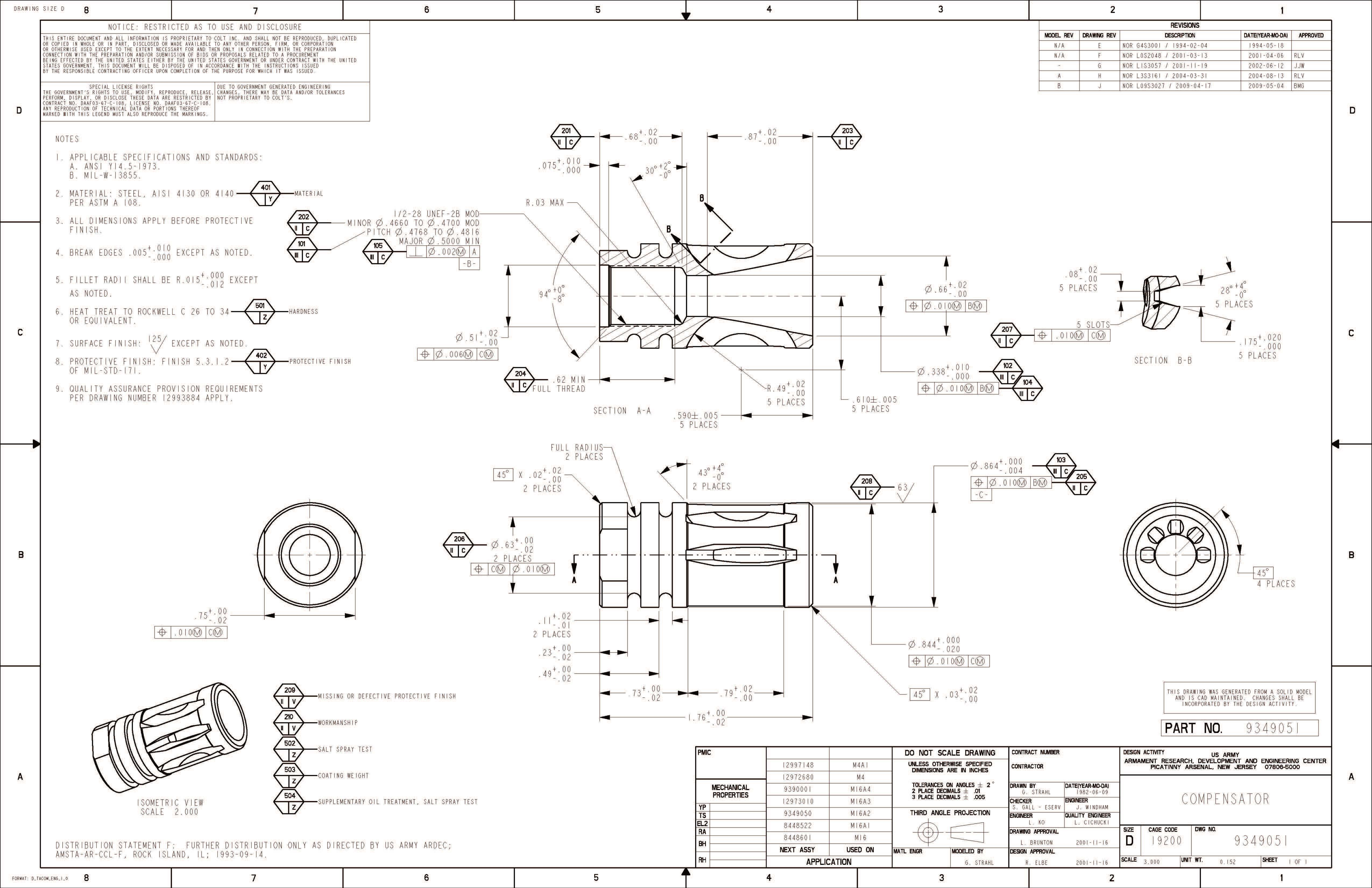
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PART NO. 8448787

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
			M231	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS	
			M4A1	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY G. STRAHL		DATE (YEAR-MO-DA) 1972-09-15	
MECHANICAL PROPERTIES			M4	THIRD ANGLE PROJECTION		CHECKER S. GALL - ESERV		ENGINEER J. WINDHAM	
YP			M16A4			ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI	
TS		8448525	M16A3			DRAWING APPROVAL L. BRUNTON		2001-09-25	
EL2		D8448525	M16A2			DESIGN APPROVAL R. ELBE		2001-09-25	
RA		D8448525	M16/M16A1			SCALE		8/1	
BH		NEXT ASSY		USED ON		CAGE CODE		19204	
RH		APPLICATION		MATL ENGR		MODELED BY		G. STRAHL	
								DWG NO.	
								8448787	
						UNIT WT		0.000	
						SHEET		1 OF 1	







DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

A. ANSI Y14.5-1973  
B. MIL-W-13855

2. MATERIAL: STEEL, AISI 1117 TO 1144 PER ASTM A 108 OR MIM-4140 PER DRAWING NUMBER 13011863.

3. DIMENSIONAL LIMITS APPLY BEFORE PROTECTIVE FINISH.

4. BREAK EDGES  $.003^{+.012}_{-.000}$  EXCEPT AS NOTED.

5. FILLET RADII SHALL BE  $R.015^{+.000}_{-.012}$  EXCEPT AS NOTED.

6. SURFACE FINISH: 125/ EXCEPT AS NOTED.

7. PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.

8. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING NUMBER 12993884 APPLY.

9. CASTINGS SHALL BE INSPECTED PER AMS 2175 AND  
THEREBY SHALL BE DESIGNATED AS CLASS 3, GRADE C.

 MISSING OR DEFECTIVE PROTECTIVE FINISH

204 — WORKMANSHIP

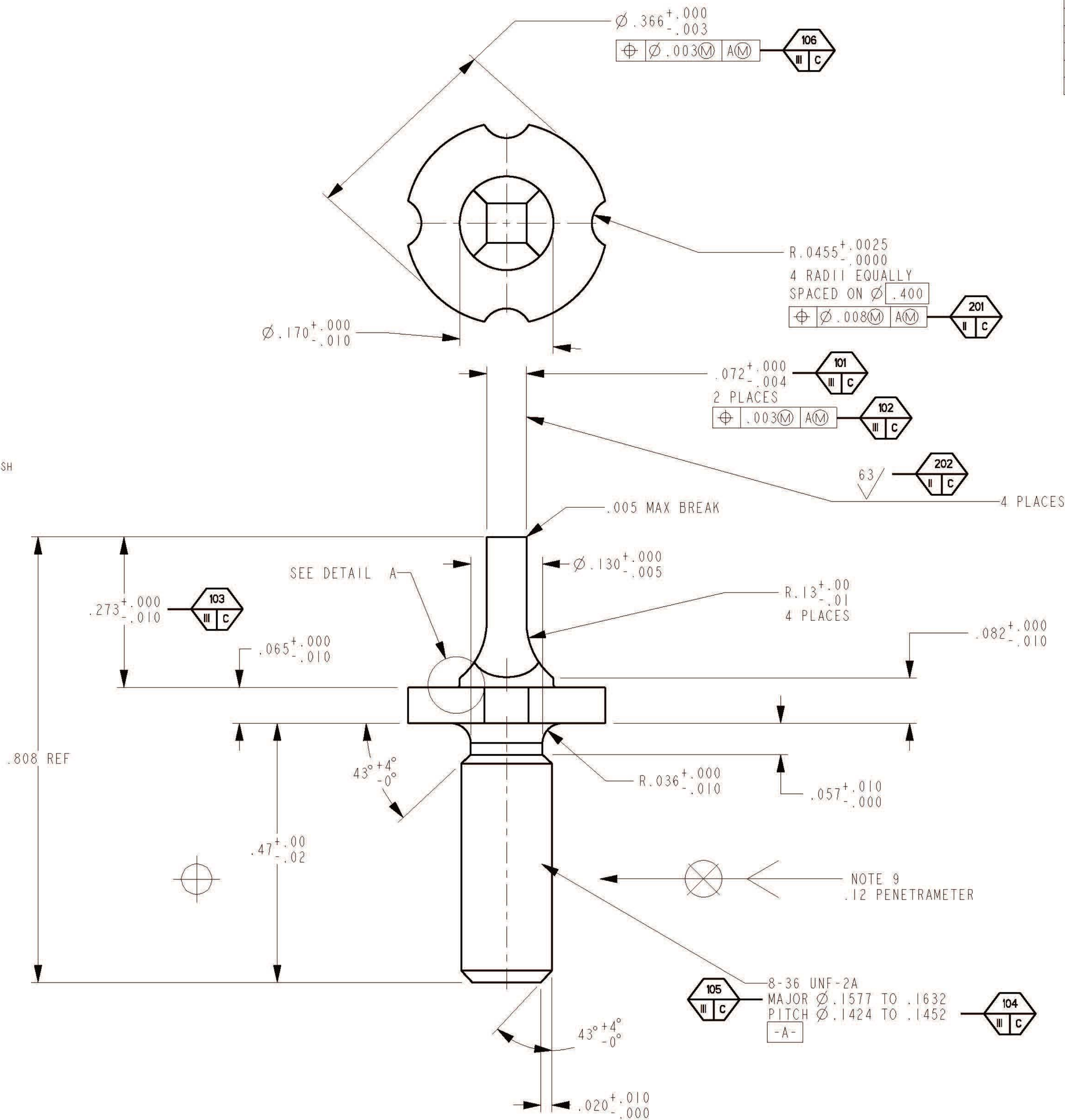
502 — SALT SPRAY TEST

503 — COATING WEIGHT

504 — SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST




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[illegible]

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PART NO. 9349056

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES			M4A1	TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm$ 3 PLACE DECIMALS $\pm$		DRAWN BY J. WINDHAM		DATE(YEAR-MO-DA) 1982-06-09		POST, FRONT SIGHT		
			M4			CHECKER G. STRAHL		ENGINEER J. WINDHAM				
			M16A4			ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI				
YP		9390001	M16A3			DRAWING APPROVAL L. BRUNTON		2001-08-22				
TS		8448522	M16A2			DRAWING APPROVAL R. ELBE		2001-08-22				
EL2		9349050	M16A1									
RA										SIZE D	CAGE CODE 19200	DWG NO. 9349056
BH												
RI		NEXT ASSY	USED ON		MATL ENGR	MODELED BY J. WINDHAM				SCALE 8.000	UNIT WT. 0.00526	SHEET 1 OF 1
		APPLICATION										











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DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCTION RELEASE ERR W2S2013	1982-06-14	
N/A	A	NOR W2S0011 / 1982-04-13 (ECP W3S3120 / 1983-07-07)	1983-11-04	
N/A	B	NOR W4S0030 / 1984-11-15	1985-04-02	
N/A	C	NOR 61S2018 / 1991-07-08	1991-10-11	
-	D	NOR L2S3024 / 2002-05-21	2002-07-30	JJW
A	E	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. ANSI Y14.5-1973  
B. MIL-W-13855

2. MATERIAL: CORROSION RESISTANT STEEL WIRE, 17-7PH COLD DRAWN COND C, AMS 5678.

3. FINISH 125/ALL SURFACES.

4. WIRE DIAMETER - .032-.001.

5. TOTAL NO. OF ACTIVE COILS - 11 REF.

6. TOTAL NO. OF COILS - 13 REF.

7. LOAD AT COMPRESSED LENGTH OF .745 = 3.88 LBS ± .388 LBS.

8. LOAD AT COMPRESSED LENGTH OF .568 = 6.58 LBS ± .658 LBS.

9. SOLID LENGTH - .419 MAX.

10. SPRING RATE - 15.23 LBS/IN REF.

11. BREAK SHARP EDGES .003+ .012.

12. SPRING REQUIREMENTS APPLY AFTER COMPRESSING TO SOLID LENGTH.

13. DIRECTION OF HELIX - OPTIONAL.

14. MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572, EXCEPT PARAGRAPH 4.4.4.1 SHALL NOT APPLY.

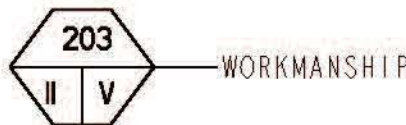
15. STRESS RELIEVE AND PRECIPITATION HARDEN AFTER FORMING TO COND CH900. HOLD AT 900°F ± 10°F FOR ONE HOUR, AIR COOL.

16. HARDNESS EQUIV TO ROCKWELL C48 MIN.

17. ENDS CLOSED AND GROUND.

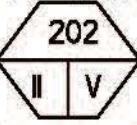
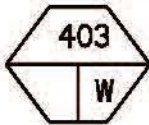
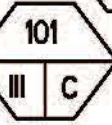
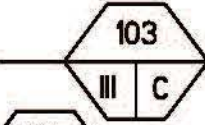
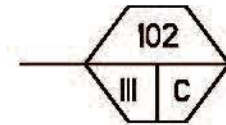
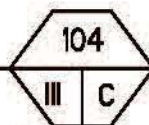
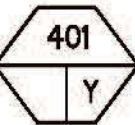
18. PROTECTIVE FINISH: - 5.4.1 OF MIL-STD-171.

19. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

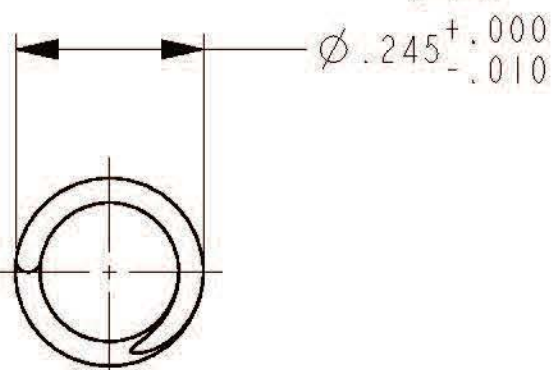
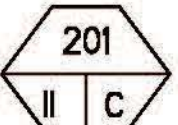
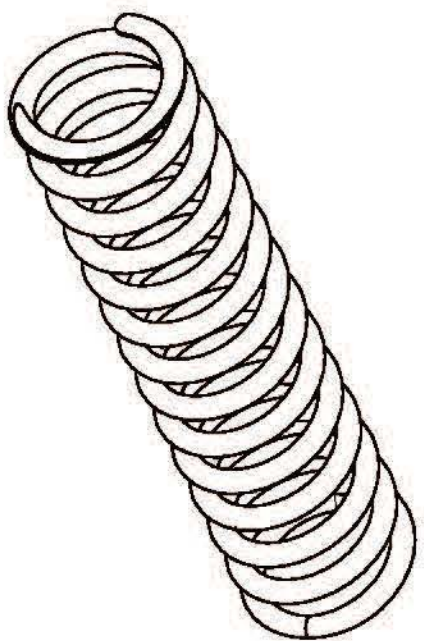
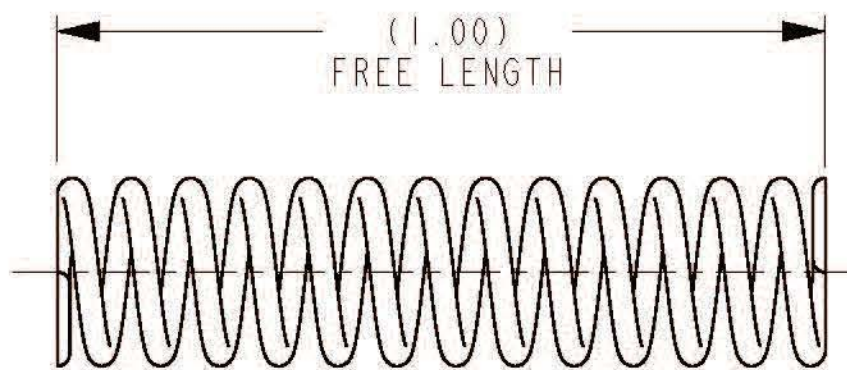


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PROTECTIVE COATING



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PART NO. 9349070

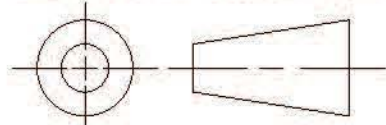
PMIC			
MECHANICAL PROPERTIES		M4A1	
YP		M4	
TS		M16A4	
EL2	9390029	M16A3	
RA	9349062	M16A2	
BH			
RH			
	NEXT ASSY	USED ON	
	APPLICATION		

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCE ON ANGLES ± °  
2 PLACE DECIMALS ±  
3 PLACE DECIMALS ±

THIRD ANGLE PROJECTION



MATL ENGR

MODELED BY

G. STRAHL

CONTRACT NUMBER

CONTRACTOR

DRAWN BY

G. STRAHL

DATE(YEAR-MO-DA)

1982-02-26

CHECKER

J. MACON-ESERV

ENGINEER

J. WINDHAM

ENGINEER

L. KO

QUALITY ENGINEER

E. SESE

DRAWING APPROVAL

L. BRUNTON

2002-05-21

DESIGN APPROVAL

R. ELBE

2002-05-21

DESIGN ACTIVITY

US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

SPRING, ELEVATION

SIZE

C

CAGE CODE

19200

DWG NO.

9349070

SCALE

4

UNIT WT.

0.002

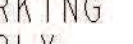
SHEET

1 OF 1



REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	E	NOR G9S2087 / 1989-08-26	1989-12-07	
N/A	F	NOR G9S3135 / 1989-11-17 (ECP G0S3077 / 1990-06-04)	1990-08-01	
N/A	G	NOR G2S018 / 1991-07-08	1991-10-11	
~	H	NOR L2S3069 / 2002-12-05	2003-01-15	
A	J	NOR L8S3013 / 2008-03-25	2008-04-23	BMG

1. APPLICABLE SPECIFICATIONS AND STANDARDS:  
A. ANSI Y14.5-1973  
B. MIL-W-13855

2. MATERIAL:
- A. REAR SIGHT BASE (CASTING) PER DRAWING NUMBER 9349088
- OR
- B. MIM-8620 PER DRAWING NUMBER 13011863.  
ALL NON-CASTING-SPECIFIC DIMENSIONAL AND MARKING  
REQUIREMENTS PER DRAWING NUMBER 12951027 APPLY.
- OR
- C. AISI 8620 PER AMS 6274.  
ALL NON-CASTING-SPECIFIC DIMENSIONAL AND MARKING  
REQUIREMENTS PER DRAWING NUMBER 12951027 APPLY.
- 

4. ALL DIMENSIONS APPLY BEFORE FINAL PROTECTIVE FINISH

5. FILLET RADII SHALL BE  $R.015^{+.000}_{-.012}$  EXCEPT AS NOTED.

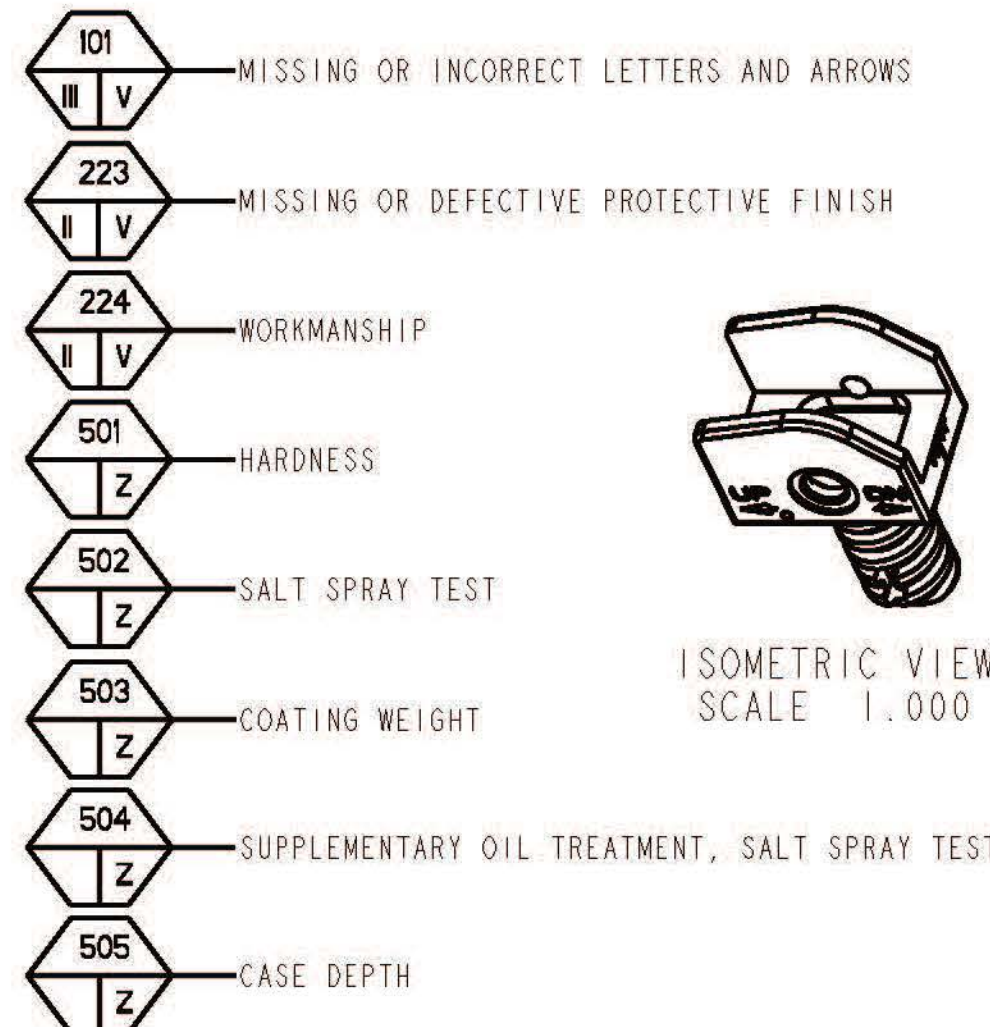
6. END OF THREAD RADially SHALL BE SUCH THAT THE LAST FULL CREST SHALL BE IN AREA SHOWN.

7. BREAK EDGES .005<sup>+</sup>.010  
                  -.000 EXCEPT AS NOTED.

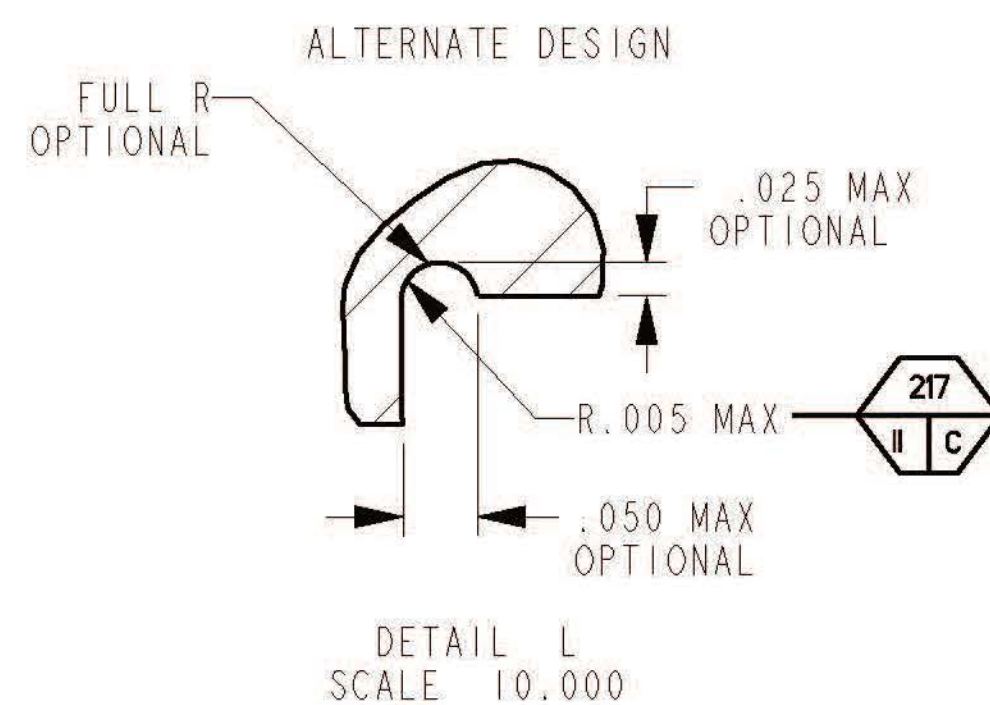
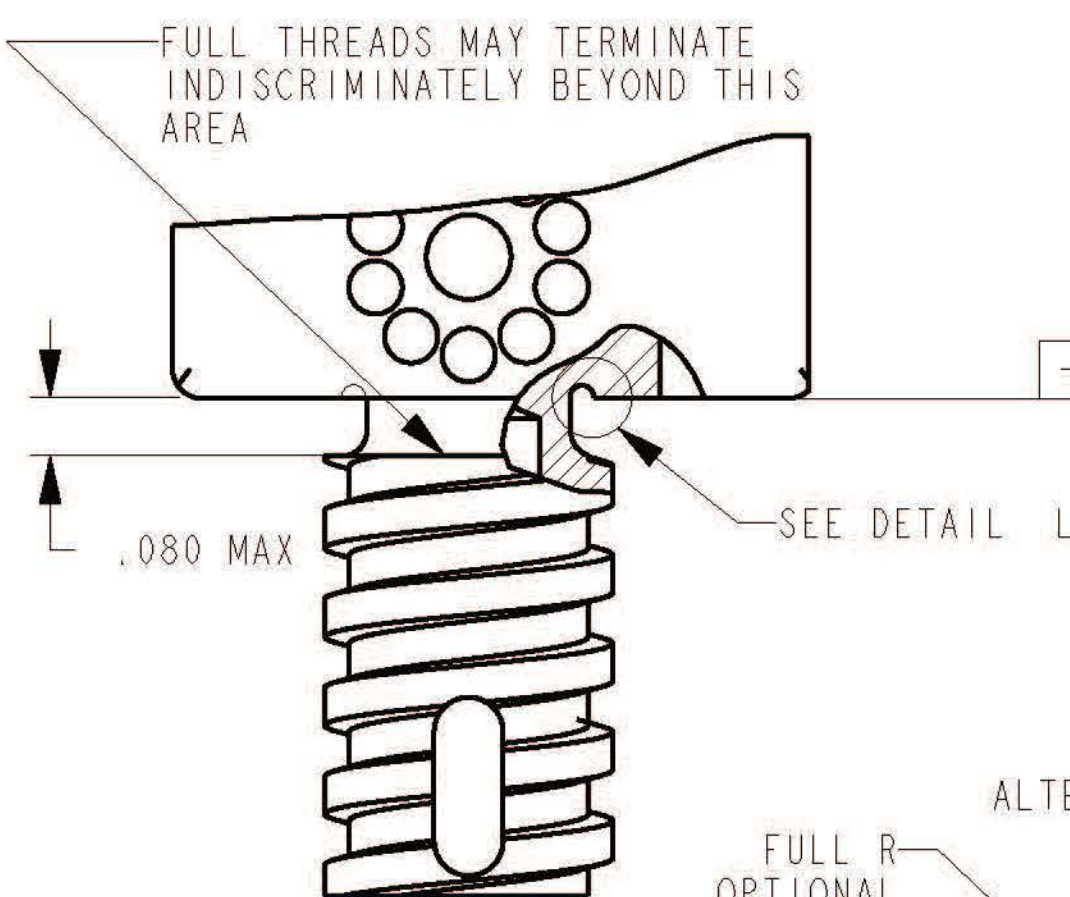
8. HEAT TREATMENT: CARBURIZE TO PRODUCE A TOTAL CASE DEPTH OF .006 TO .010 AND HARDNESS EQUIVALENT TO ROCKWELL 151 89.5 TO 91.5.

9. SURFACE FINISH: 125/ EXCEPT AS NOTED.

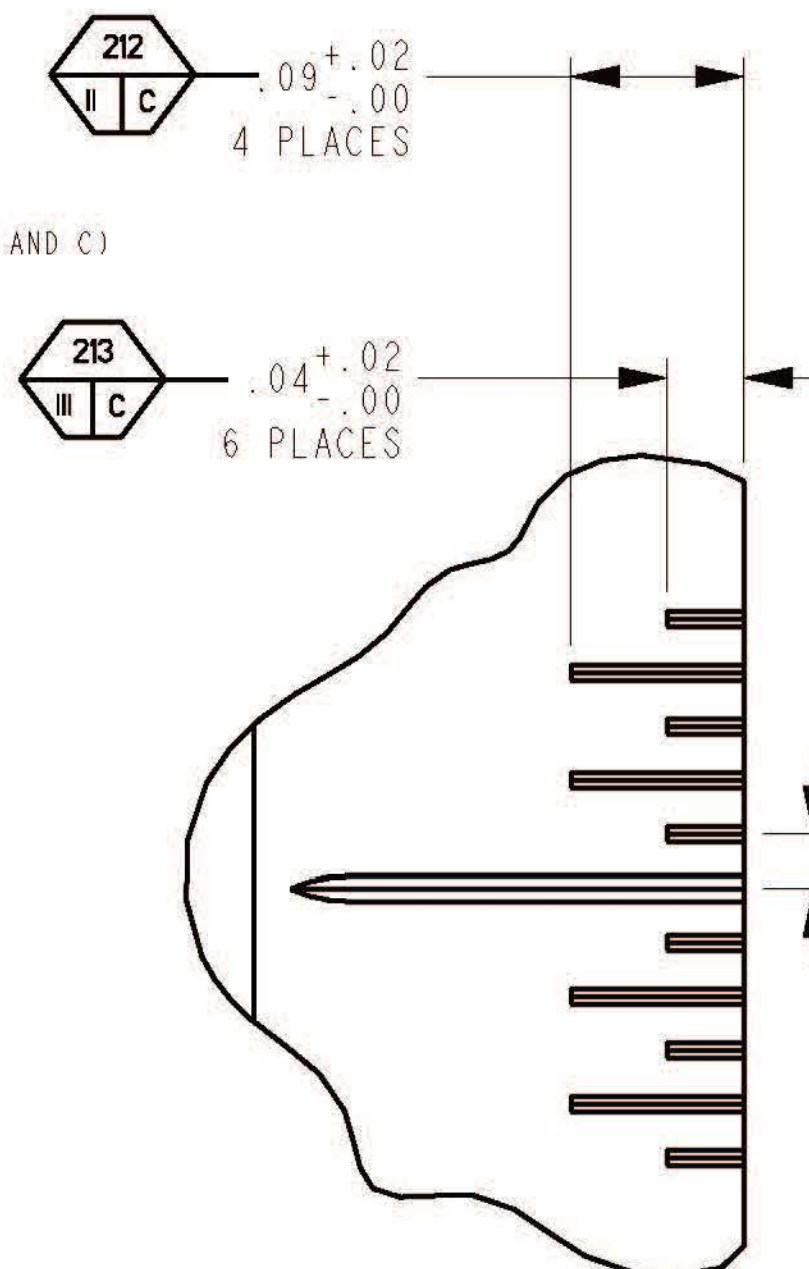
10. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.



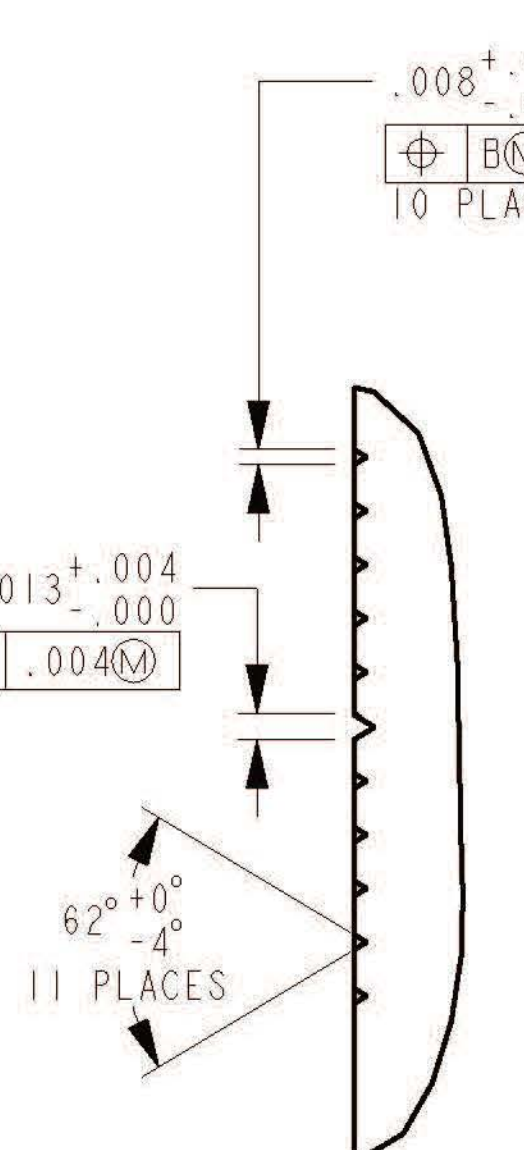
ISOMETRIC VIEW  
SCALE 1.000



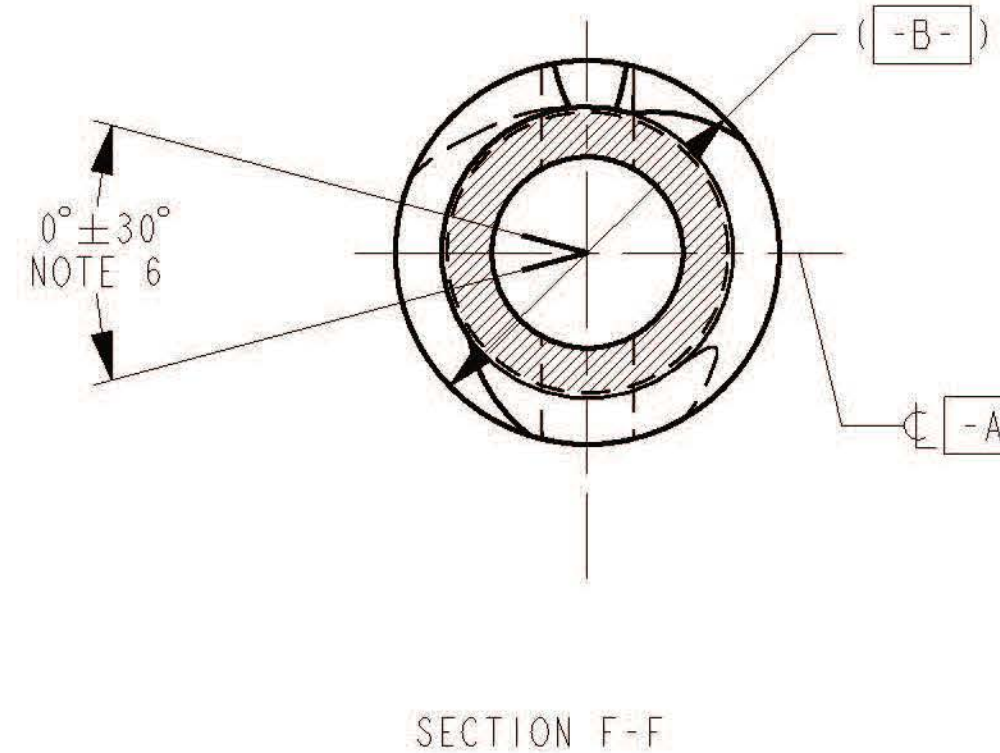
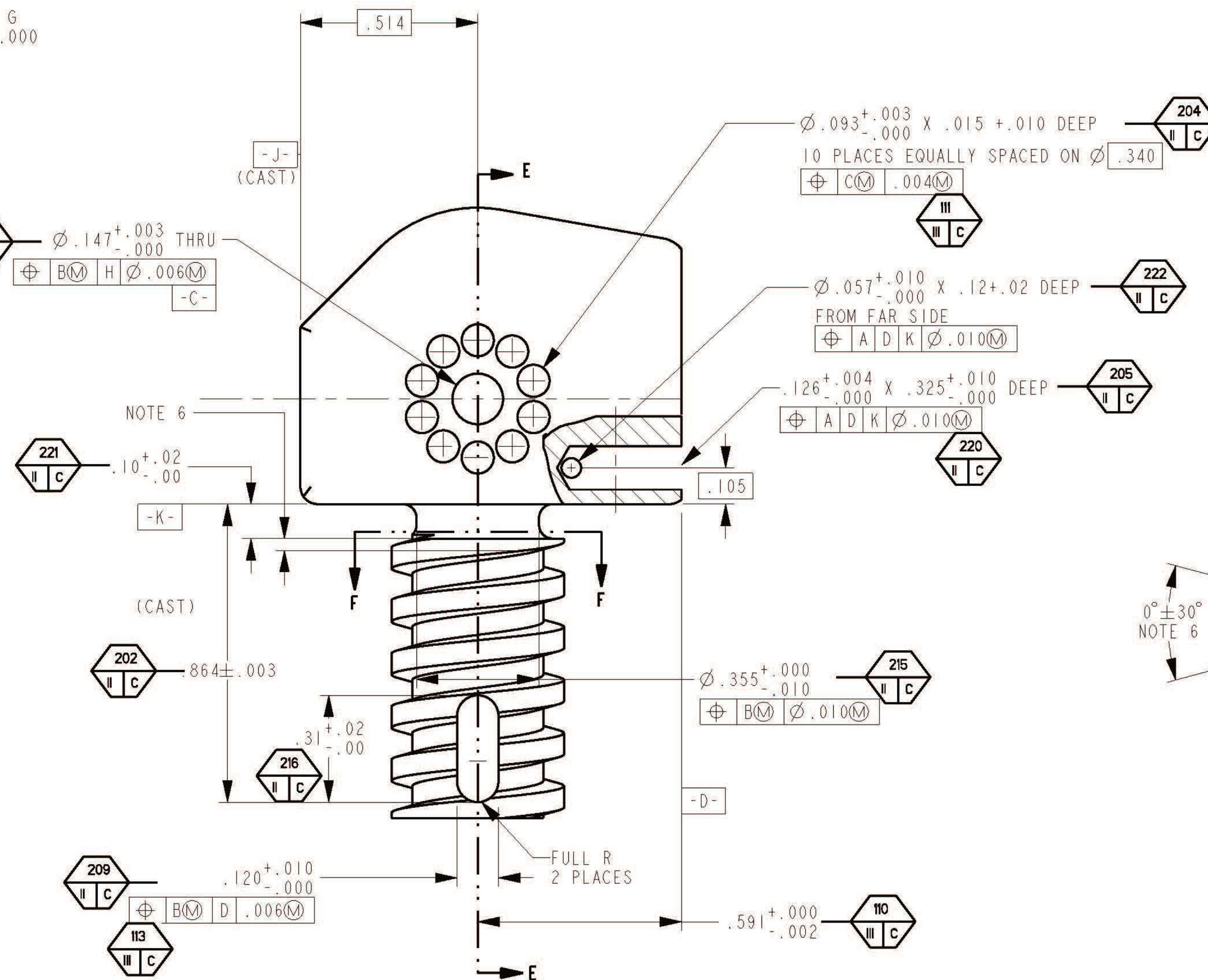
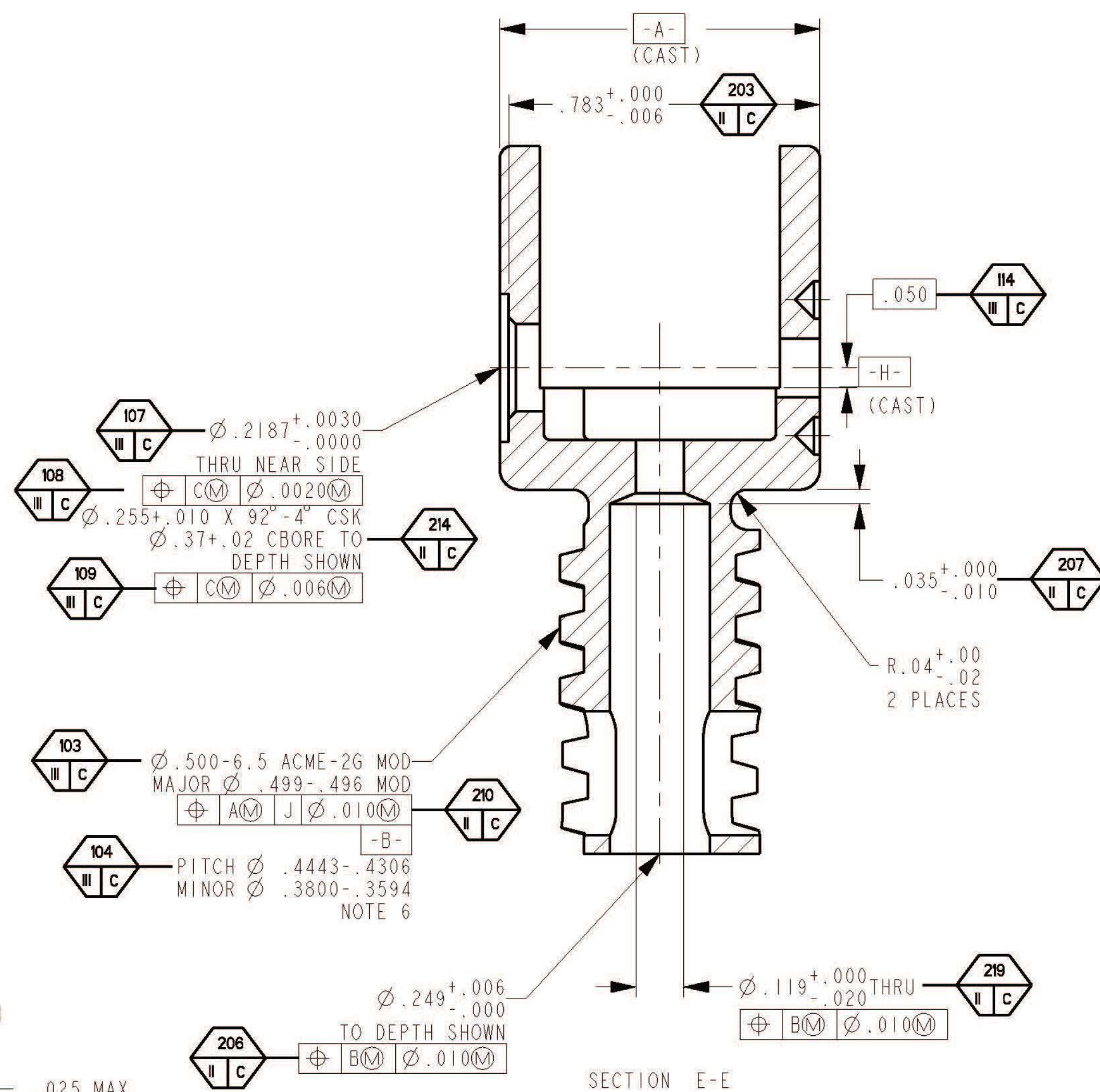
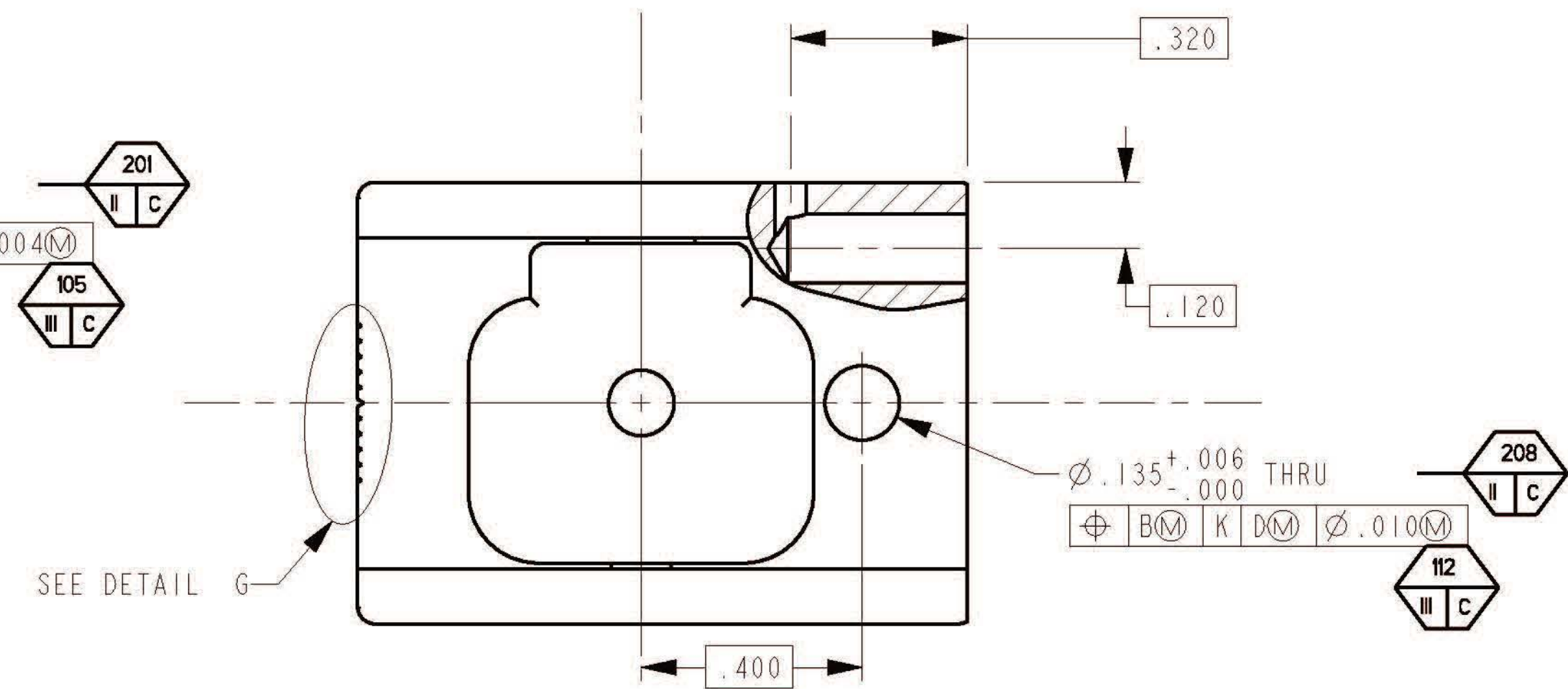
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(PARTIAL PROJECTION VIEW)

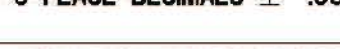


DETAIL G  
SCALE 10.000



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AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 9349074

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000					
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		BASE, REAR SIGHT					
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY G. STRAHL						DATE (YEAR-MO-DA) 1982-06-09	
YP				THIRD ANGLE PROJECTION		CHECKER K. JOHNSON - ESERV						ENGINEER J. WINDHAM	
TS						ENGINEER L. KO						QUALITY ENGINEER E. SESE	
EL2						DRAWING APPROVAL L. BRUNTON		2002-11-27		SIZE F			
RA		9349072	M16A2							CAGE CODE 19200		DWG NO. 9349074	
BH													
RH				APPLICATION	MATL ENGR	MODELED BY	DESIGN APPROVAL	2002-11-27		SCALE 3.000			
						G. STRAHL	R. FIRE			UNIT WT. 0.105			
										SHEET 1 OF 1			







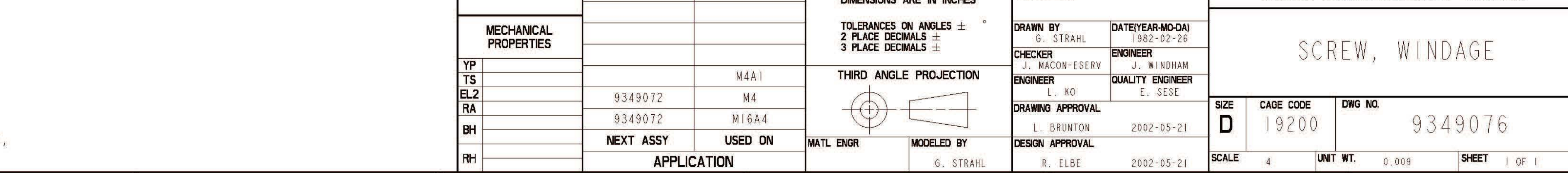
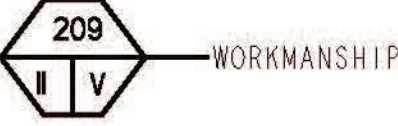
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E. SESE		E. SESE							
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ANTON 2002-05-21		D		19200		9349076			
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STATEMENT F: FURTHER DISTRIBUTION ONLY A  
F, ROCK ISLAND, IL; 1993-09-14.


DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY  
AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

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CHANGES, THERE MAY BE DATA AND/OR TOLERANCES  
NOT PROPRIETARY TO COLT'S.

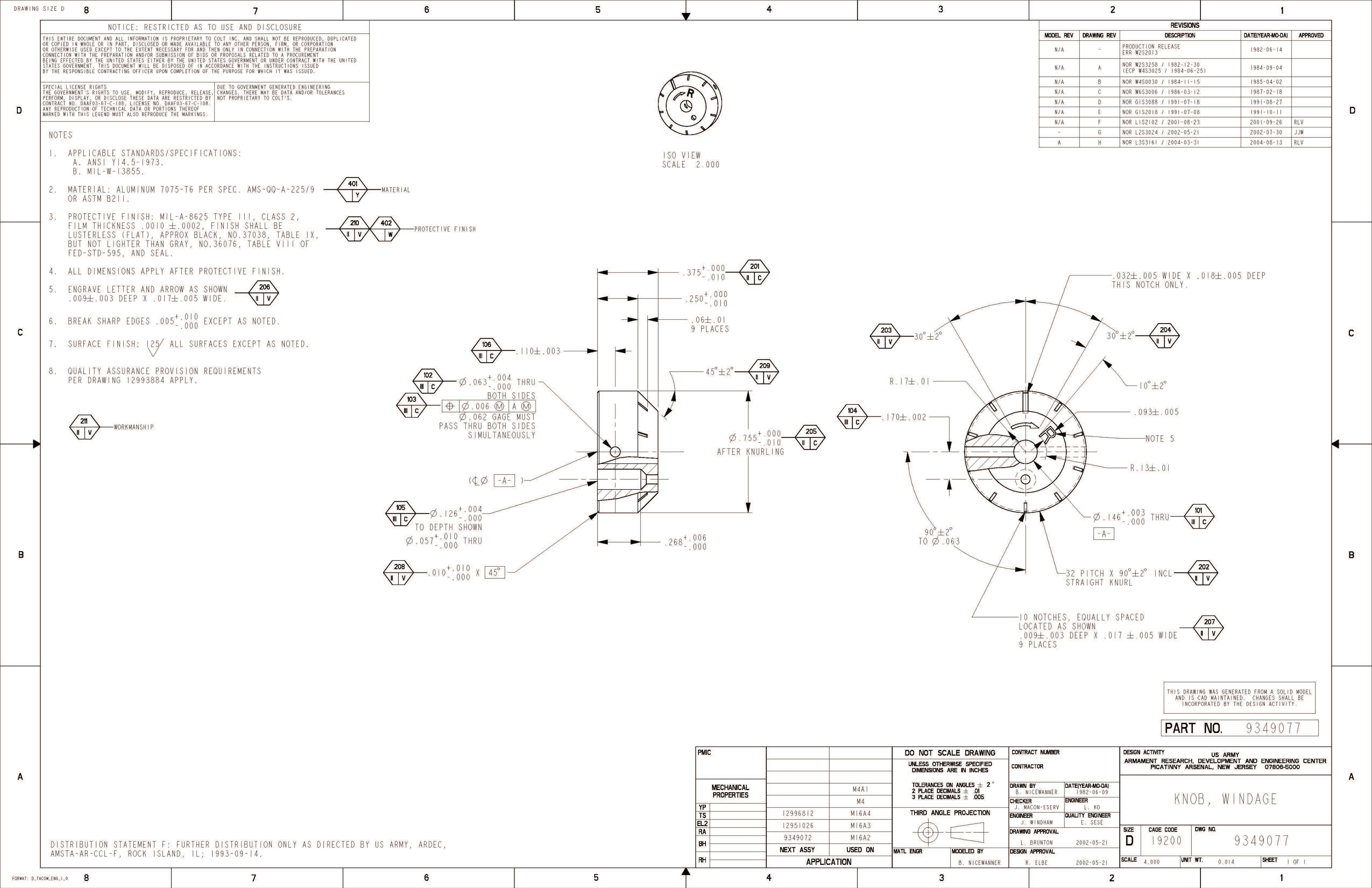
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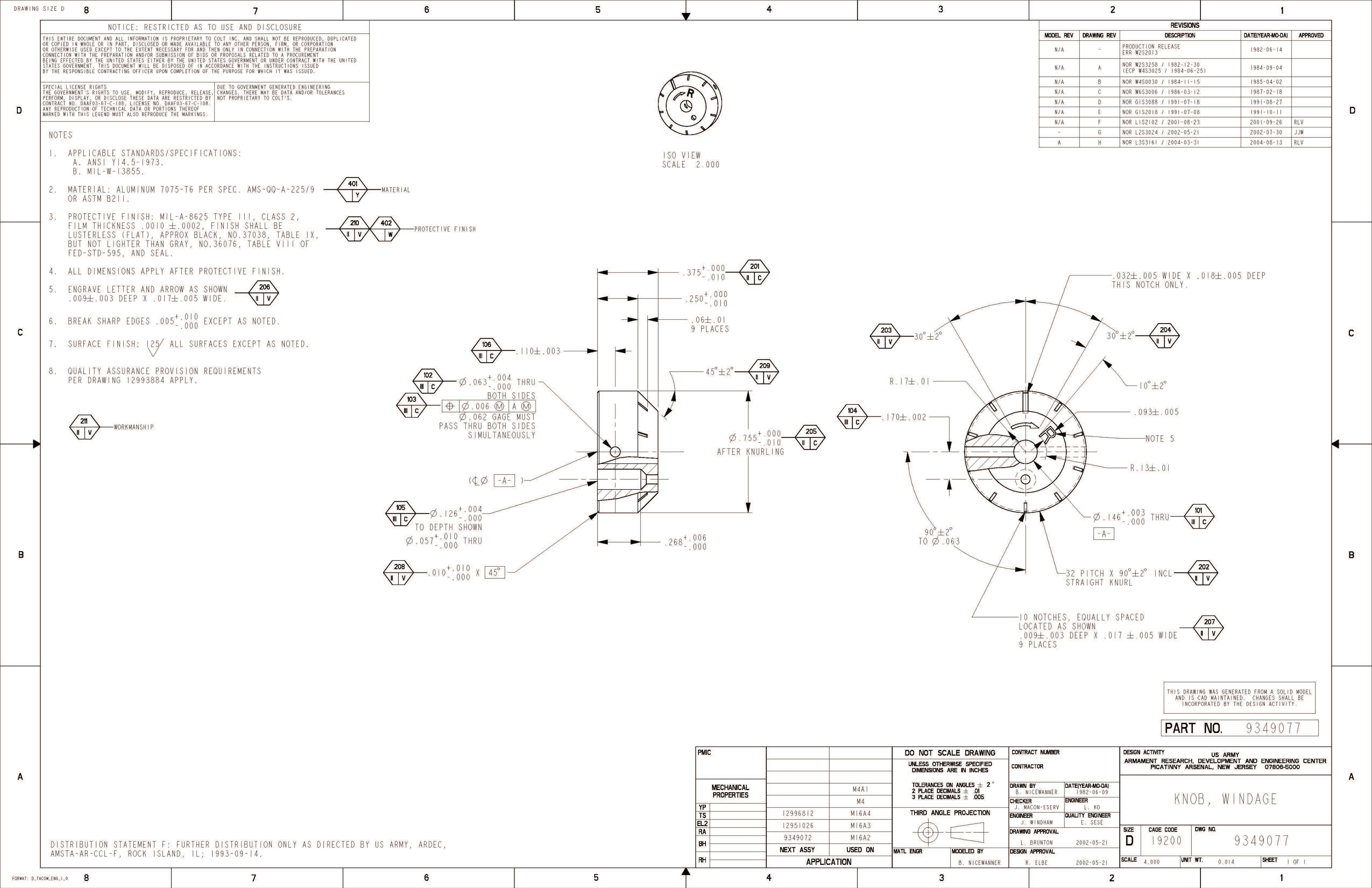
**PART NO.** 9349076

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		SCREW, WINDAGE				
				TOLERANCES ON ANGLES ± °		DRAWN BY						
				2 PLACE DECIMALS ±		DATE(YEAR-MO-DAI)						
				3 PLACE DECIMALS ±		ENGINEER						
YP				THIRD ANGLE PROJECTION 		CHECKER		ENGINEER		J. WINDHAM		
TS		M4A1	J. MACON-ESERV			J. WINDHAM						
EL2	9349072	M4	ENGINEER			QUALITY ENGINEER						
RA	9349072	M16A4	L. KO			E. SESE						
BH		NEXT ASSY	USED ON	MATL ENGR		DRAWING APPROVAL		SIZE	CAGE CODE	DWG NO.		
RH		APPLICATION		MODELED BY		L. BRUNTON 2002-05-21		D	19200	9349076		
				G. STRAHL		DESIGN APPROVAL		SCALE 4			UNIT WT. 0.009	SHEET 1 OF 1
						R. ELBE 2002-05-21						









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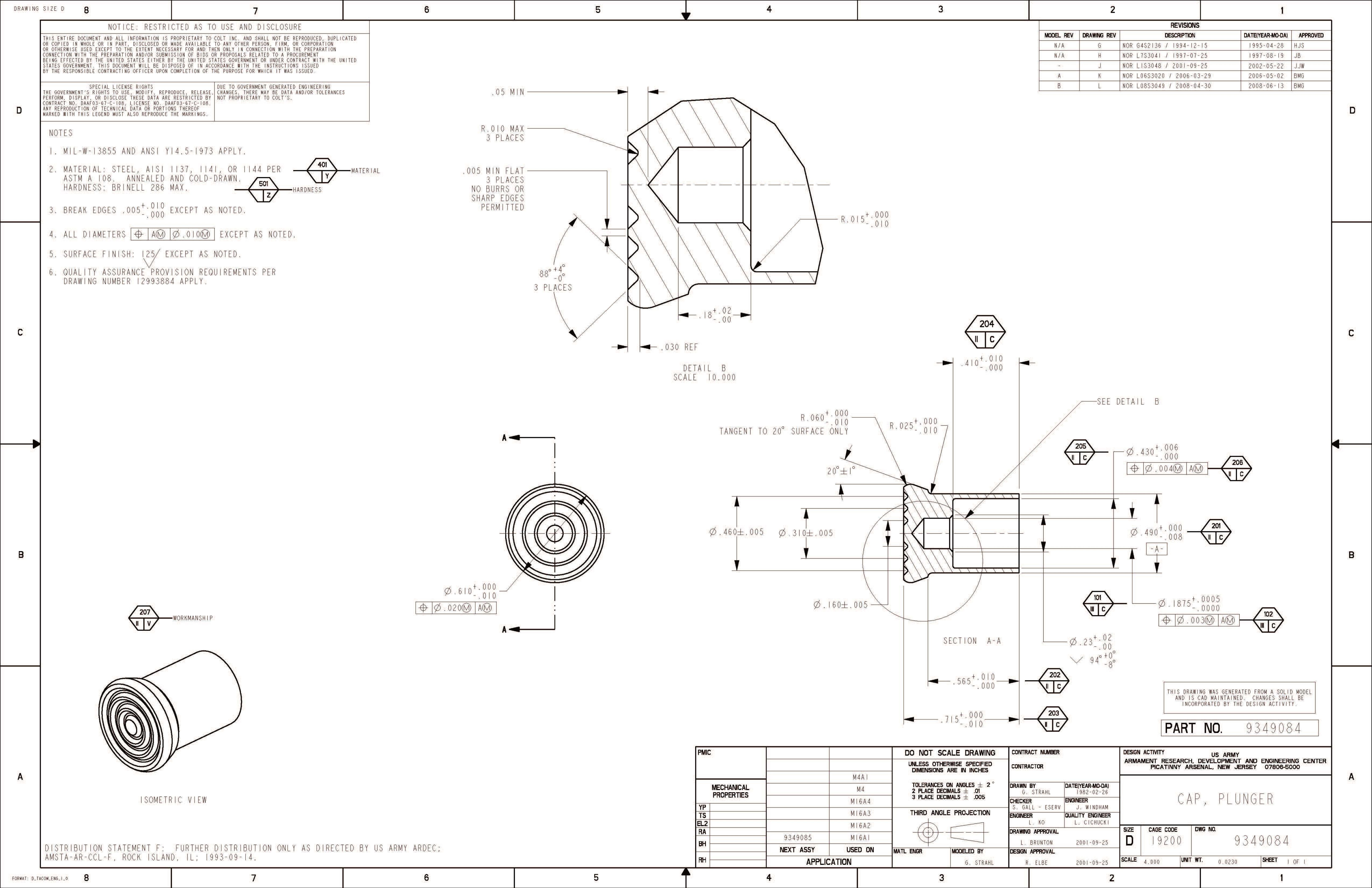
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- NOTES
1. SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.

2. MATERIAL: PLASTIC COMPOUND PER ASTM D4066, PA 162, COLOR SHALL BE LUSTERLESS (FLAT), APPROX. BLACK NO. 37038, TABLE IX, BUT NOT LIGHTER THAN GRAY, NO. 36076 TABLE VIII OF FED-STD-595.

3. BREAK SHARP EDGES .010±.005 UNLESS OTHERWISE NOTED.

4. FILLET RADIUS .009±.006 UNLESS OTHERWISE NOTED.

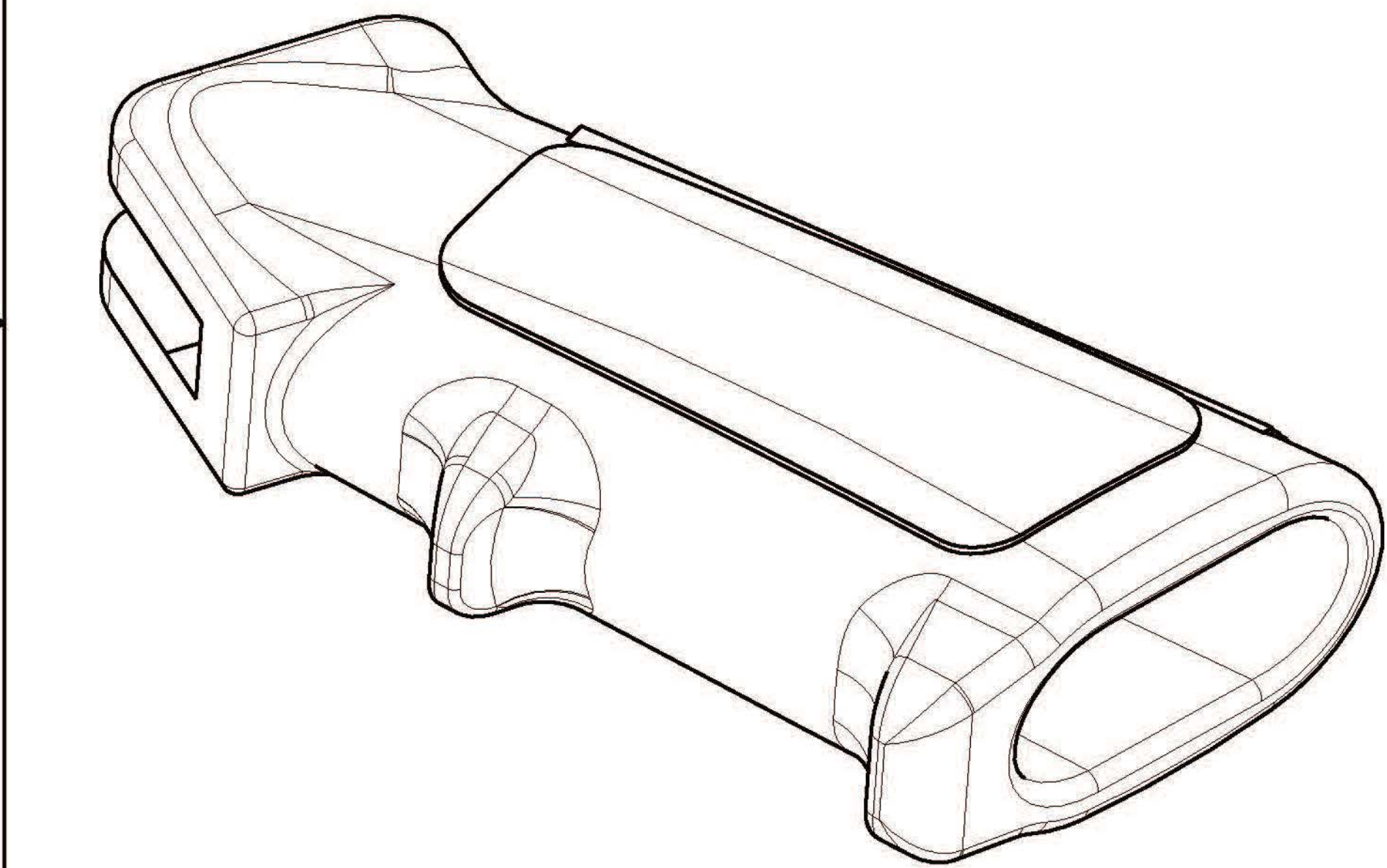
5. REMOVE ALL FLASH.

6. PART SHALL BE FREE FROM POROSITY, CRACKING, DEFORMATION AND/OR KNIT MARKS.

7. FINISH: EXTERNAL SURFACES MUST HAVE DULL MATTE FINISH.

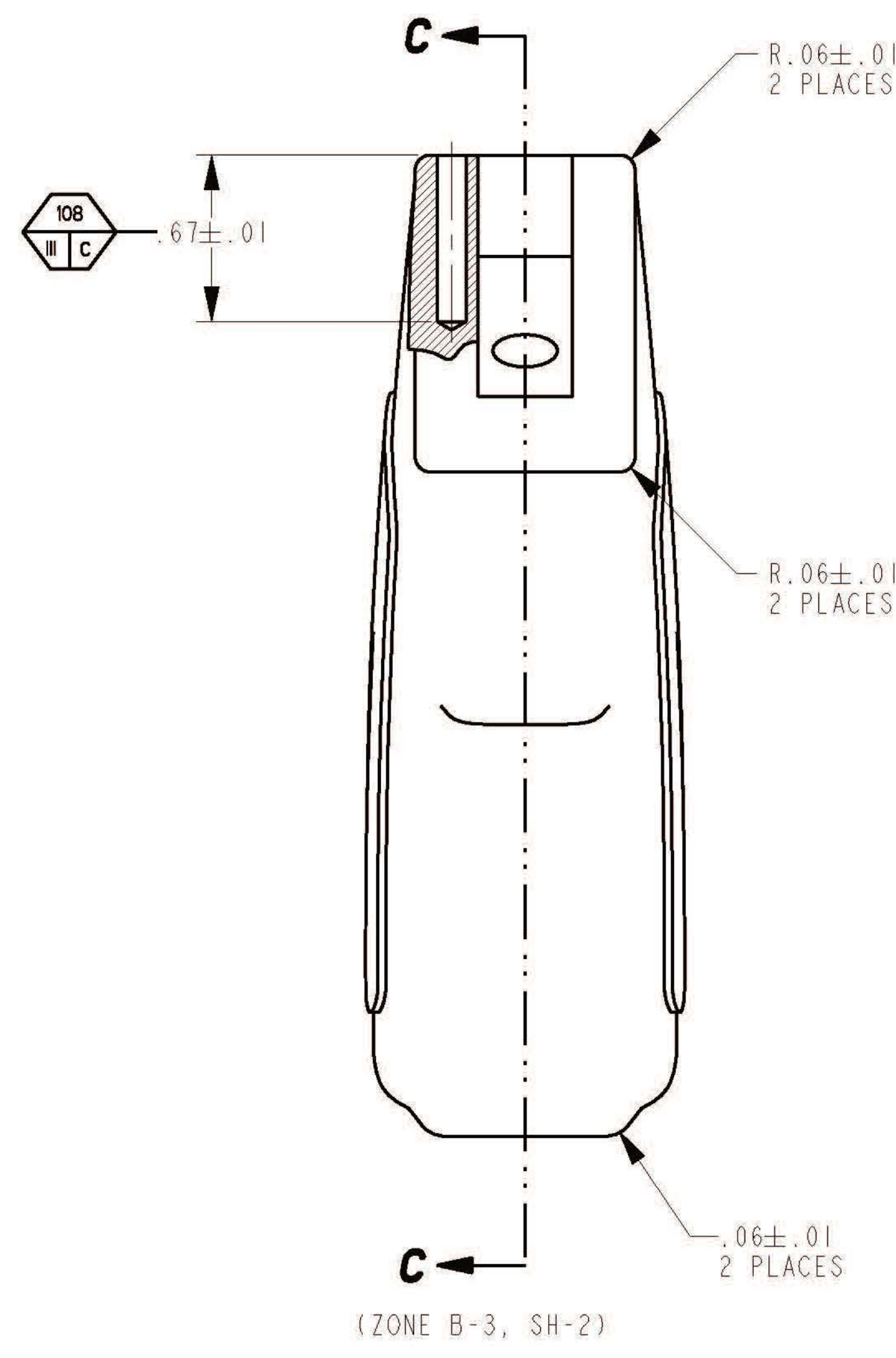
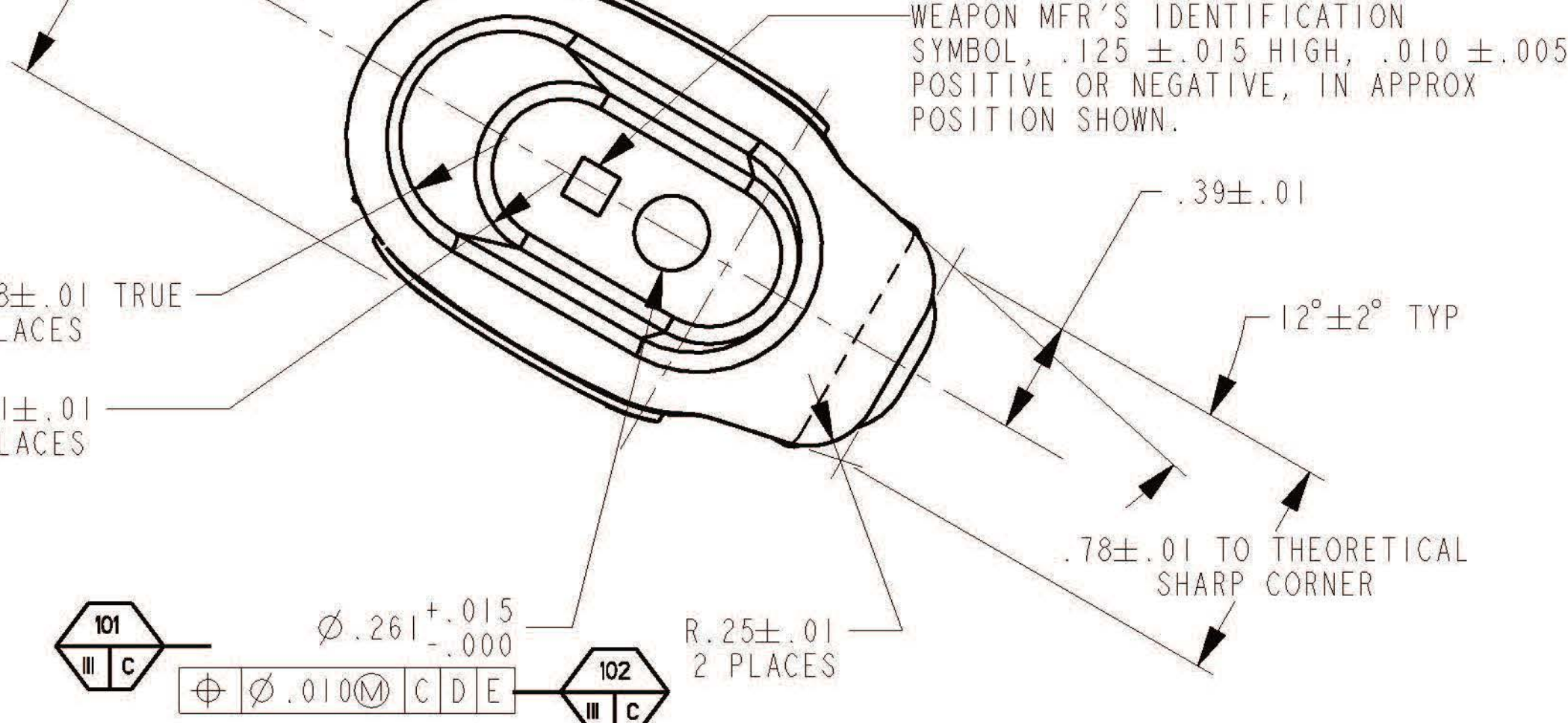
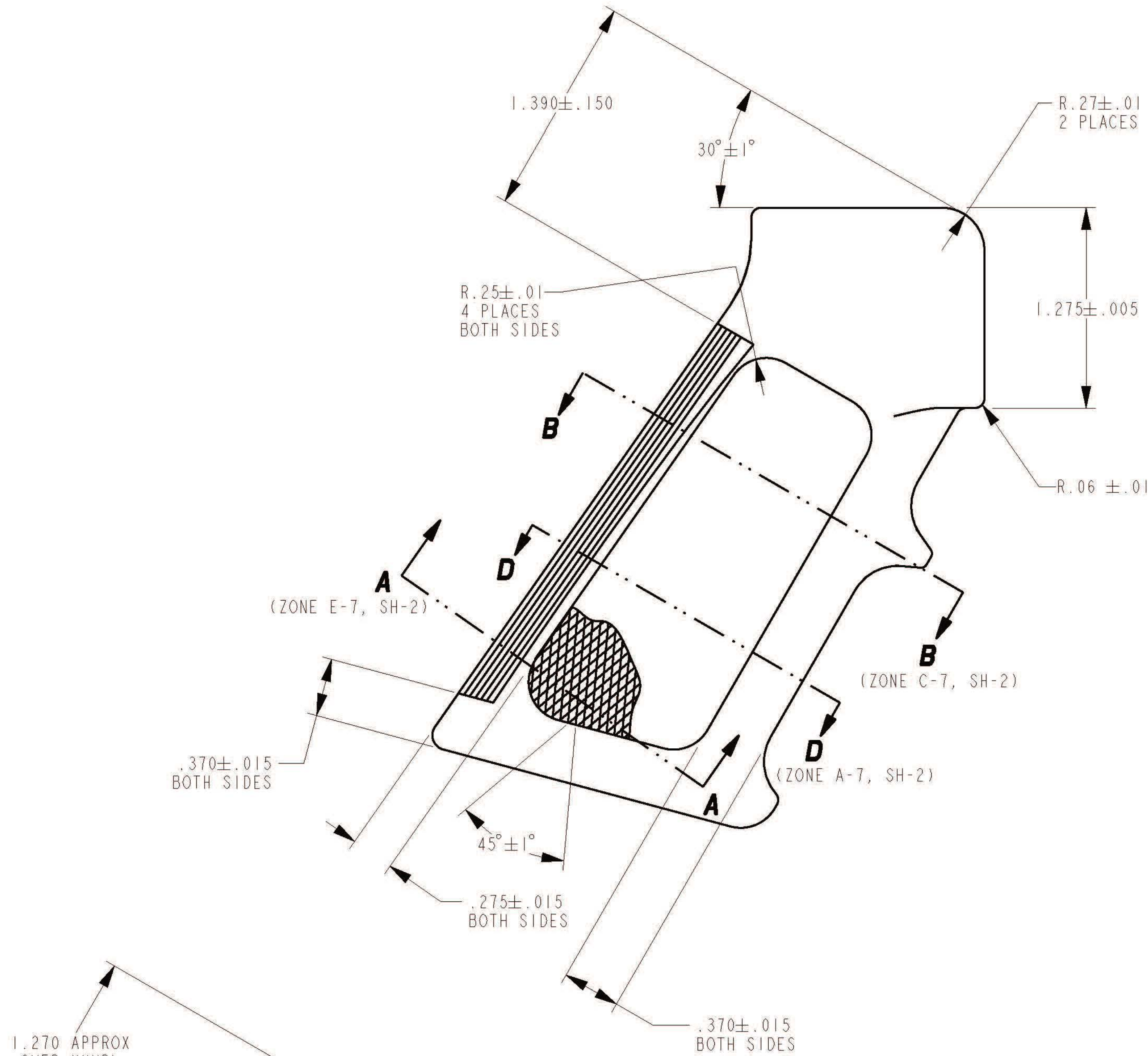
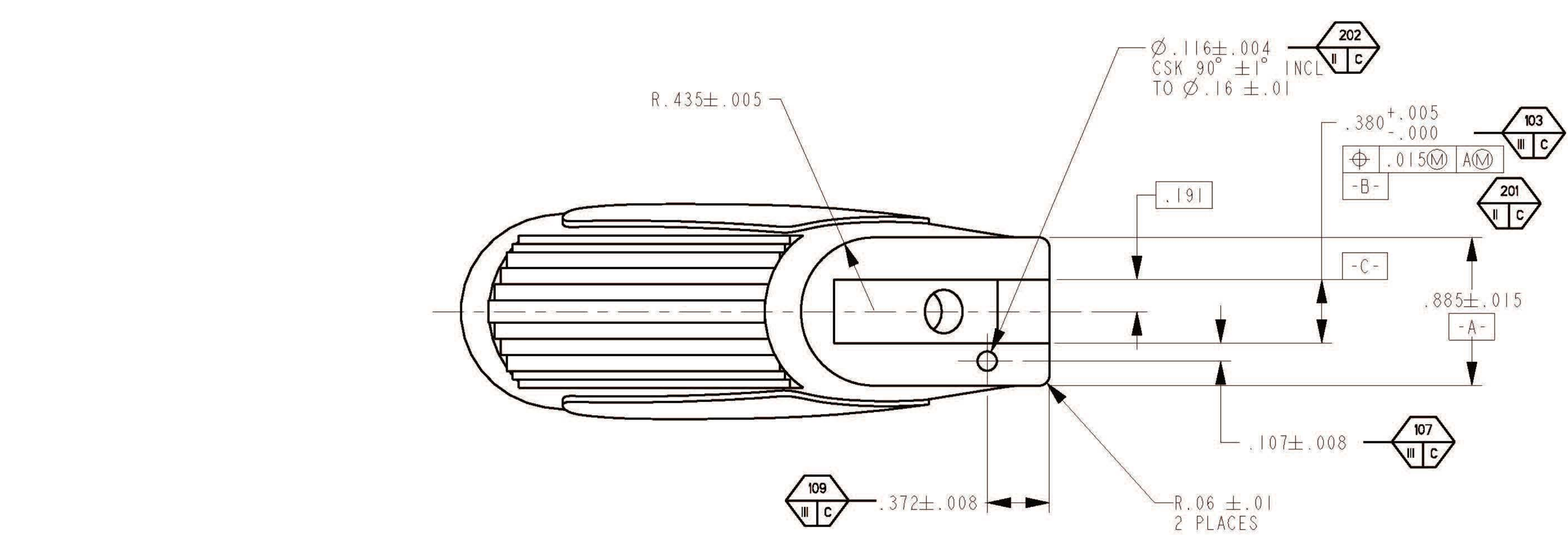
8. SURFACE FINISH 125/ALL SURFACES UNLESS OTHERWISE NOTED.

9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



3D VIEW FOR REFERENCE ONLY  
SCALE 2.000

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WORKMANSHIP



DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY; ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	F	NOR W653006 / 1986-03-12	1987-02-19	
N/A	G	NOR W558004 / 1986-02-04	1989-02-15	
N/A	H	ERR Z9Z1281BB (ECP 6853018 / 1988-03-29) (ECP 6853031 / 1989-05-23) (ECP 6053015 / 1990-03-07)	1990-09-06	
N/A	J	NOR G1S2018 / 1991-07-08	1991-10-11	PP
-	K	NOR L2S3042 / 2002-08-05	2002-09-26	JJW
A	L	NOR L0955072 / 2009-11-16	2009-11-19	GJC

REV STATUS OF SHEETS	REV	L	L
	SHEET	1	2

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 9349127

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY	
		TOLERANCES ON ANGLES ± °		DRAWN BY		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	
		3 PLACE DECIMALS ±		CHECKER		PICATINNY ARSENAL, NEW JERSEY 07806-5000	
		THIRD ANGLE PROJECTION		ENGINEER		GRIP, PISTOL	
		NEXT ASSY USED ON		QUALITY ENGINEER		SIZE	
		APPLICATION		DESIGN APPROVAL		CAGE CODE	
						DWG NO.	
						SCALE	
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						SHEET	



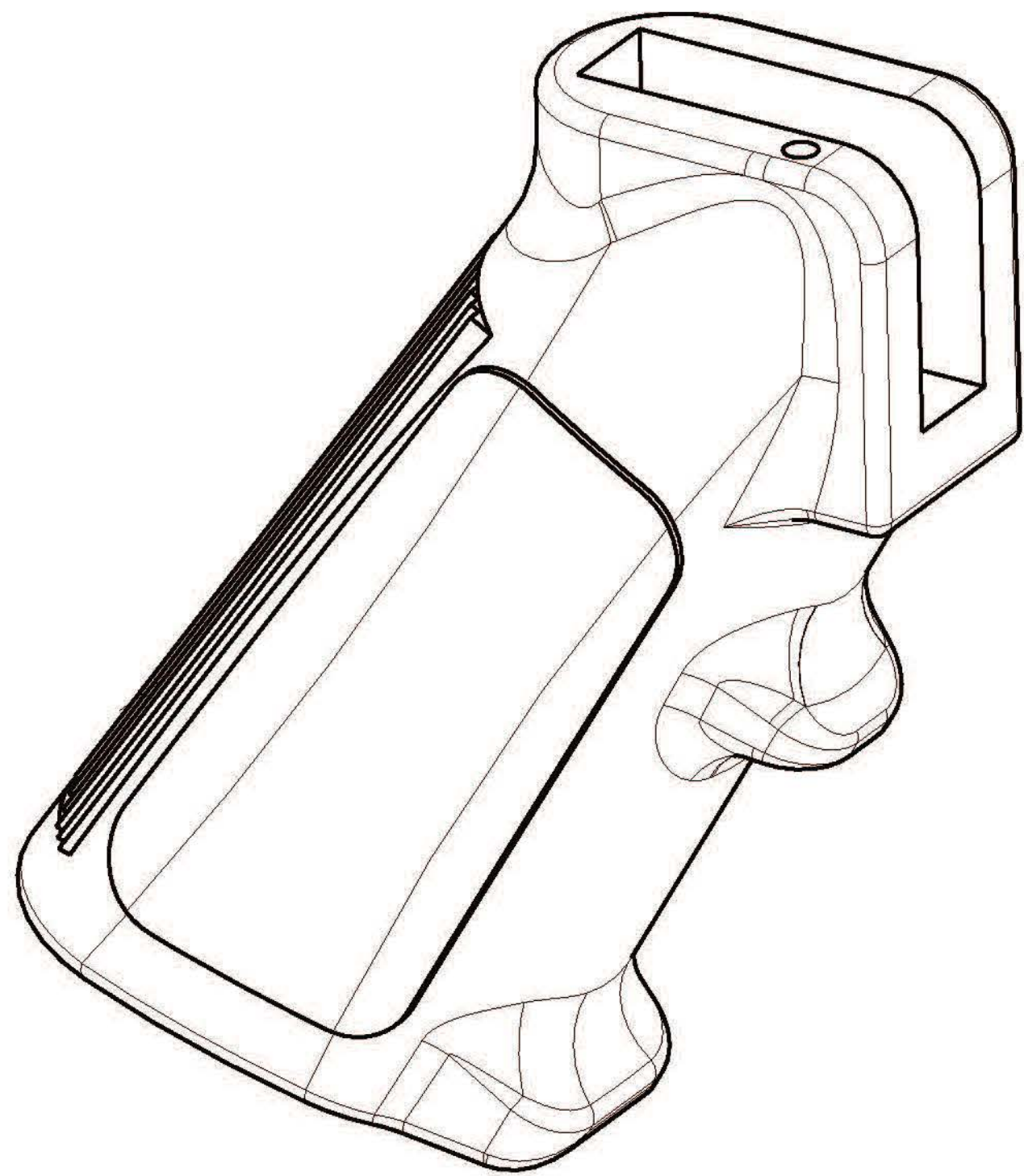
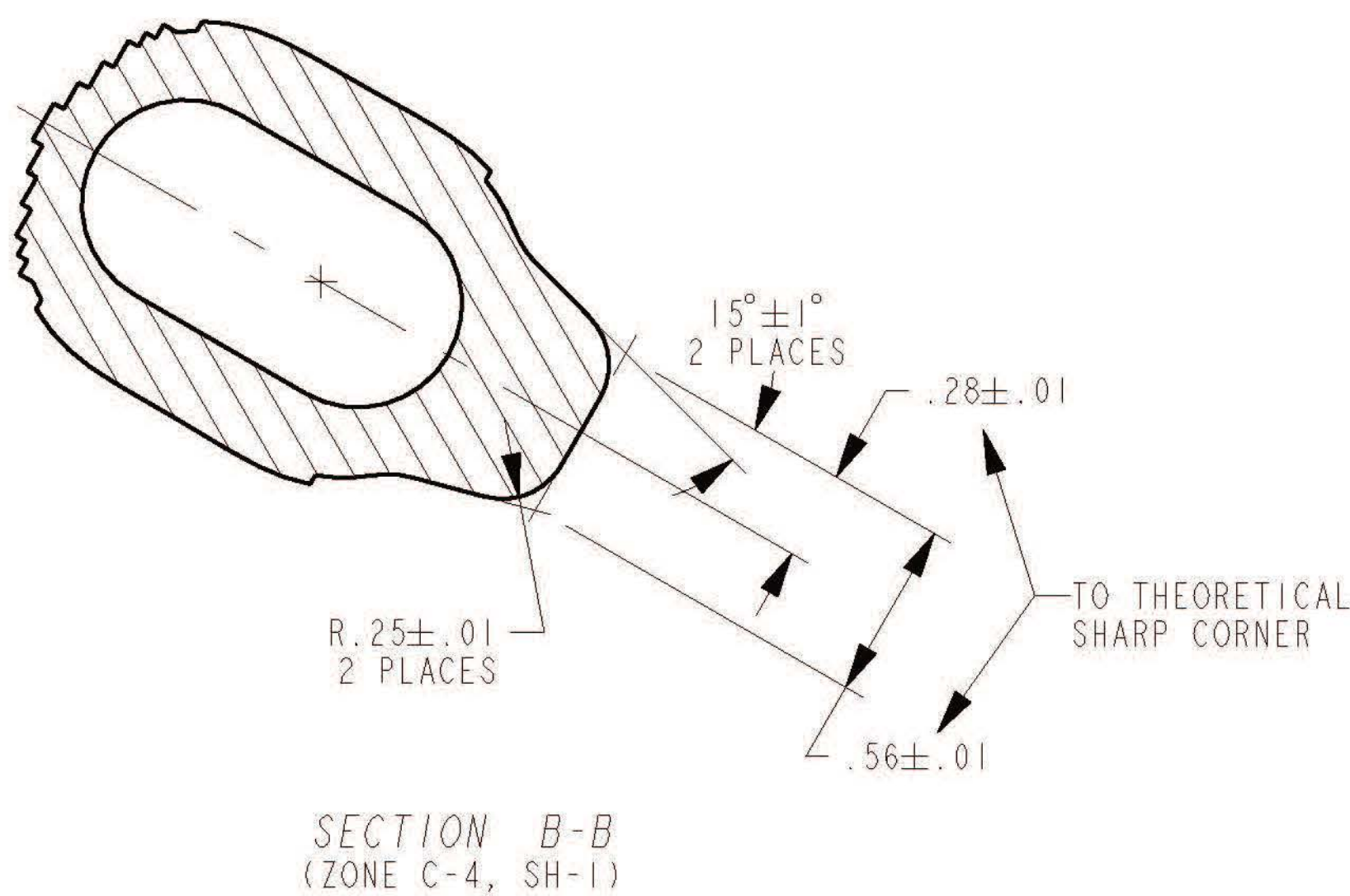
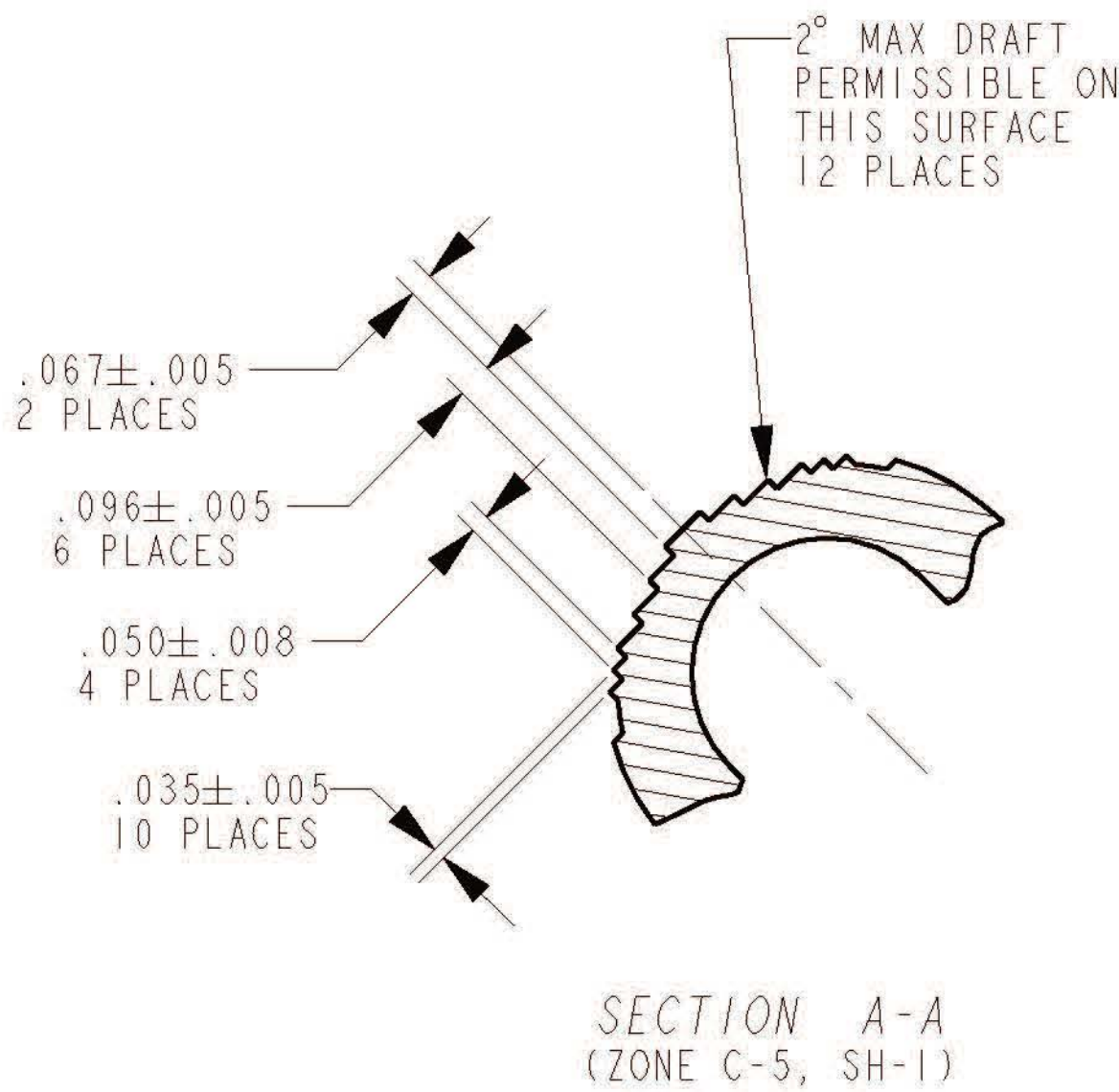
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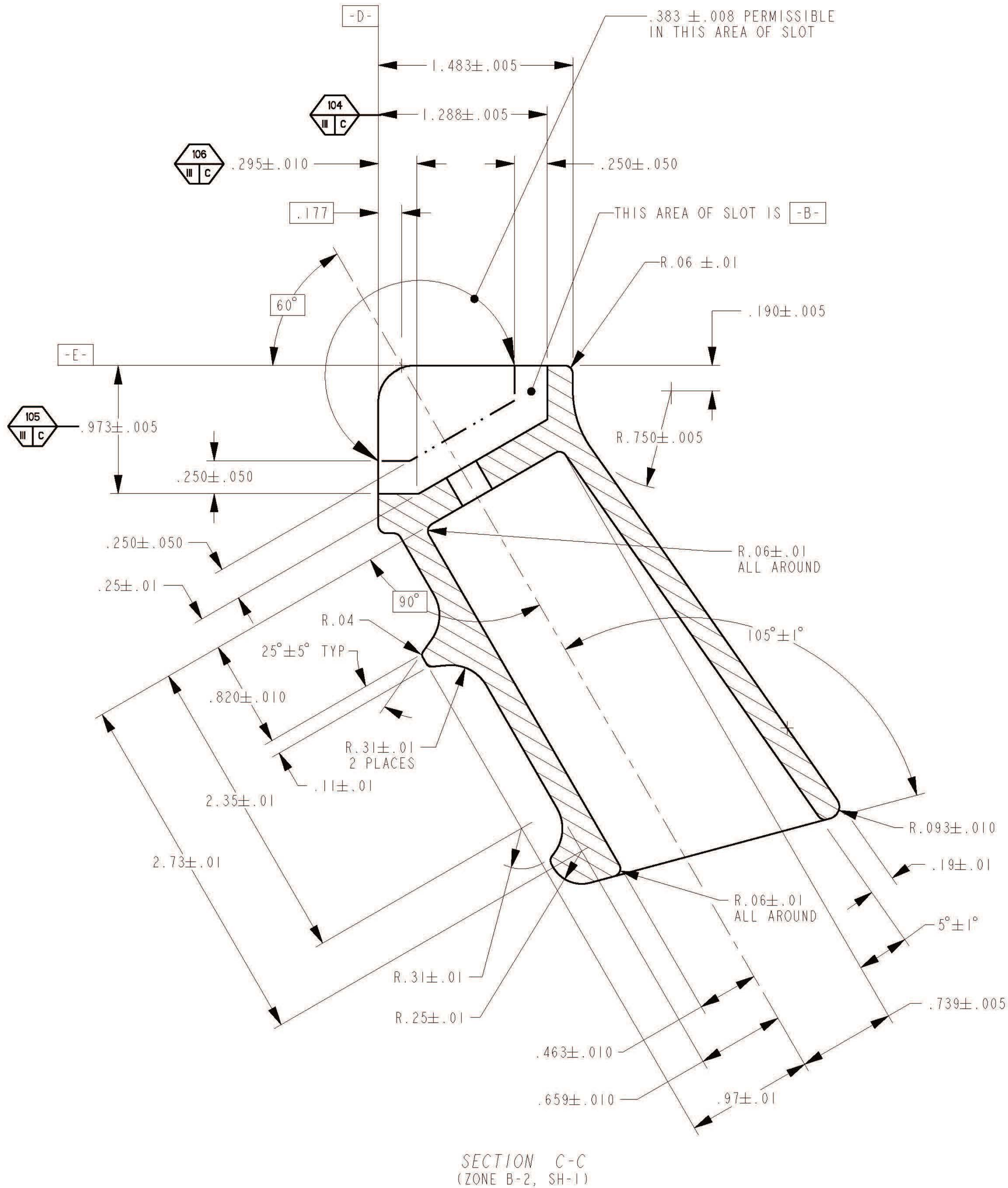
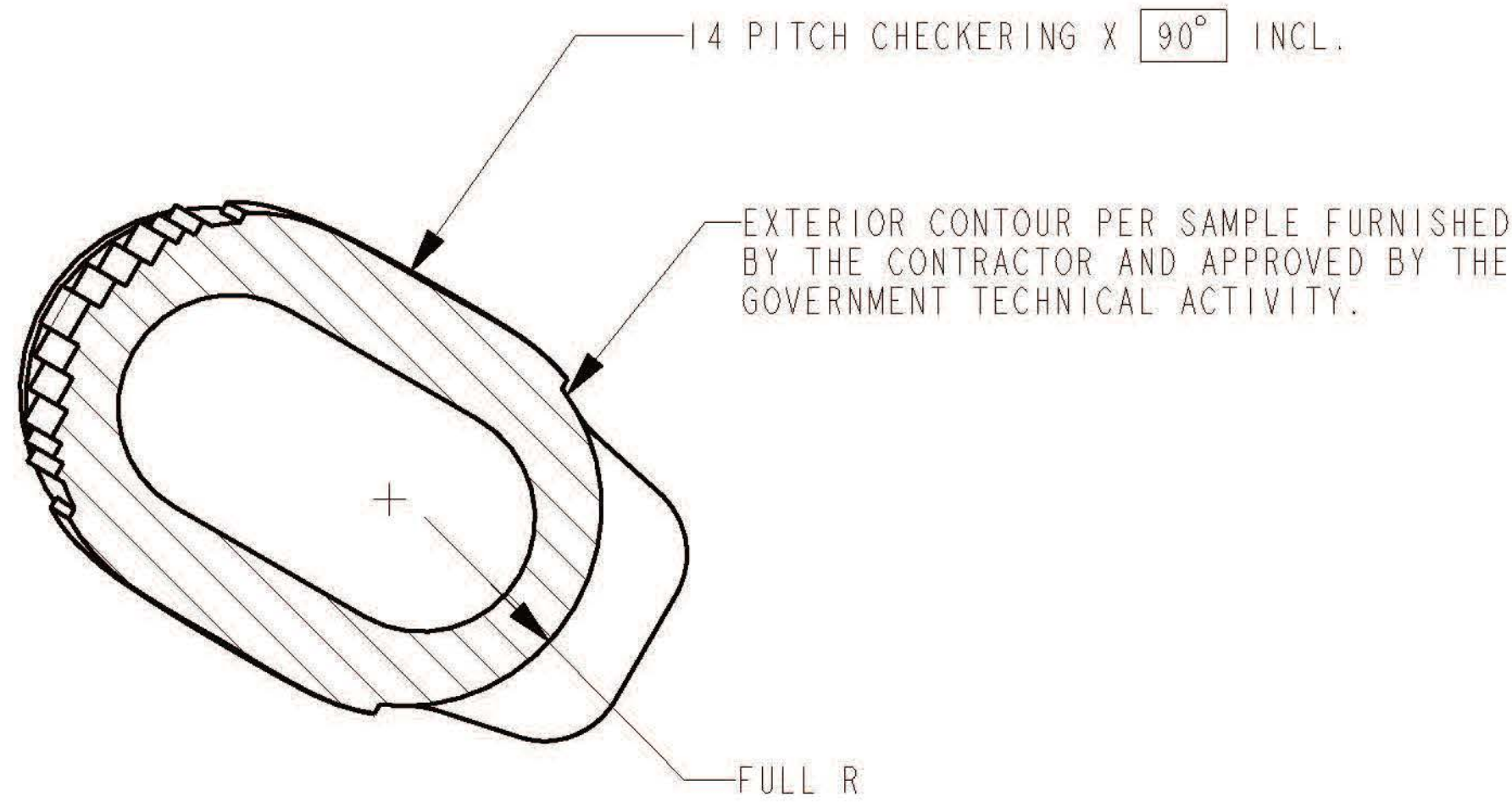
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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	F	NOR W633066 / 1986-03-12	1987-02-19	
N/A	G	NOR W558004 / 1986-02-04	1989-02-15	
N/A	H	ERR Z9Z1281BB (ECP 6853018 / 1988-03-29) (ECP 6853031 / 1989-05-23) (ECP 6053015 / 1990-03-07)	1990-09-06	
N/A	J	NOR G1S2018 / 1991-07-08	1991-10-11	PP
-	K	NOR L253042 / 2002-08-05	2002-09-26	JJW
A	L	NOR L0955072 / 2009-11-16	2009-11-19	GJC

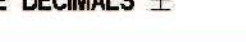


3D VIEW FOR REFERENCE ONLY  
SCALE 2.000

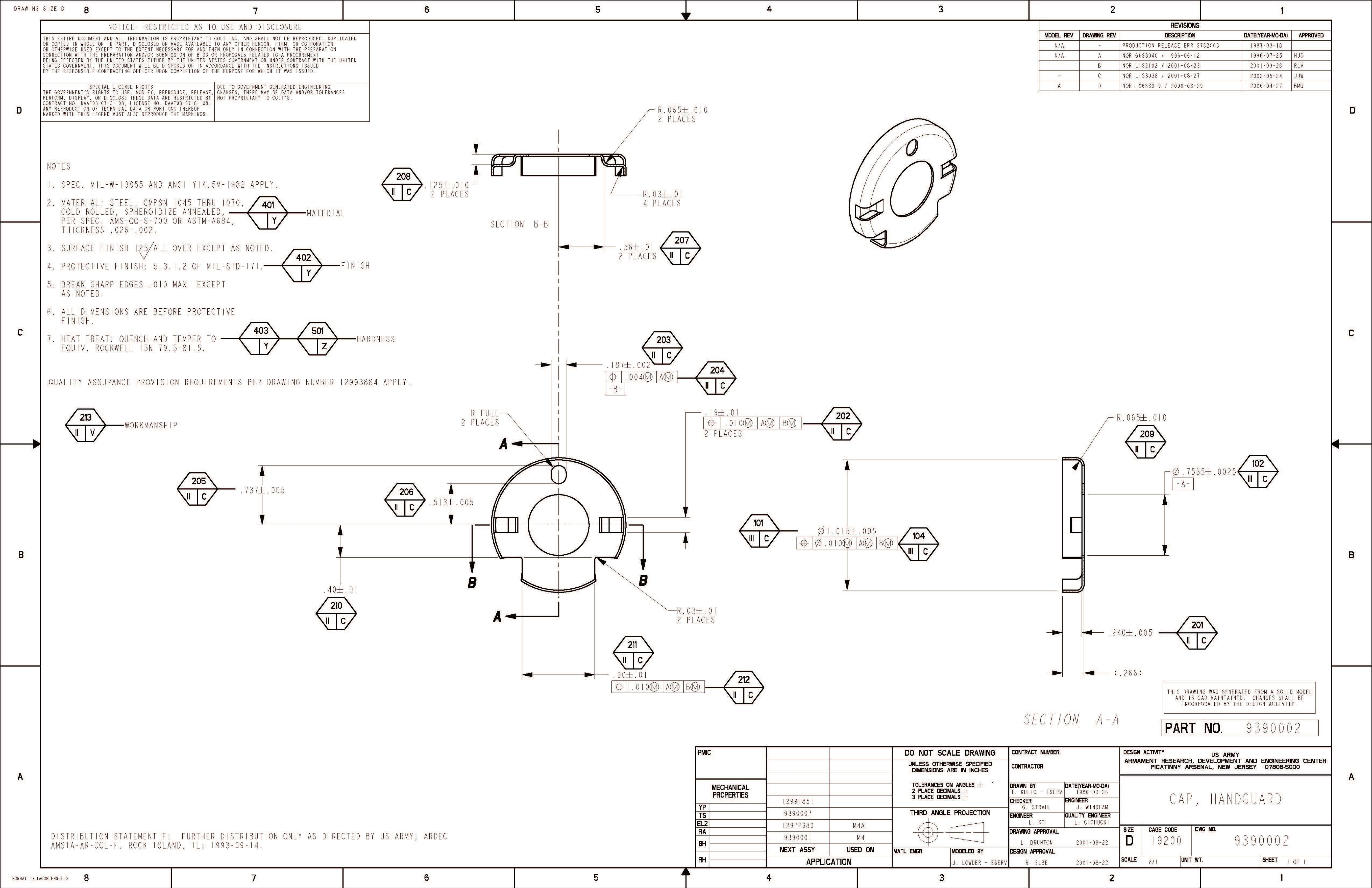


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PART NO. 9349127

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
		M231		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
		M4A1									
MECHANICAL PROPERTIES		9390011 M4		TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY DATE (YEAR-MO-DA) J. LOWDER - ESERV 1982-06-09		GRIP, PISTOL			
		F9327230 M16A4									
YP	F8448604 M16A3		THIRD ANGLE PROJECTION		J. MACON-ESERV J. WINDHAM						
TS	F8448578 M16A2				ENGINEER QUALITY ENGINEER						
EL2	9349100 M16A1				L. KO E. SESE						
RA					DRAWING APPROVAL		SIZE		CAGE CODE	DWG NO.	
BH	NEXT ASSY USED ON				L. BRUNTON 2002-08-05		F		19200		9349127
RH			MATL ENGR		MODELED BY		DESIGN APPROVAL		SCALE		
		APPLICATION		J. LOWDER - ESERV		R. ELBE 2002-08-05		2		UNIT WT. 0.212	SHEET 2 OF 2





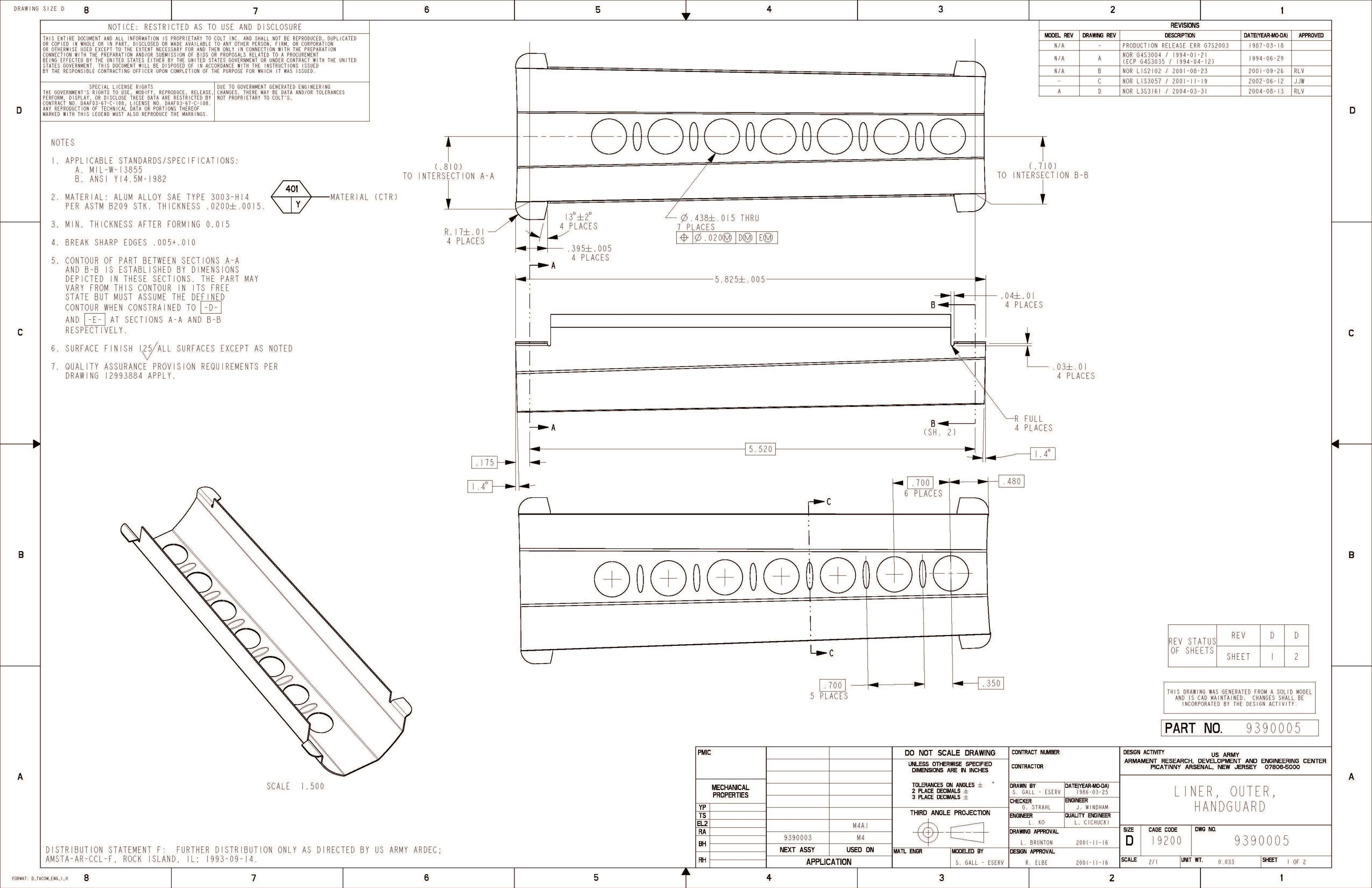














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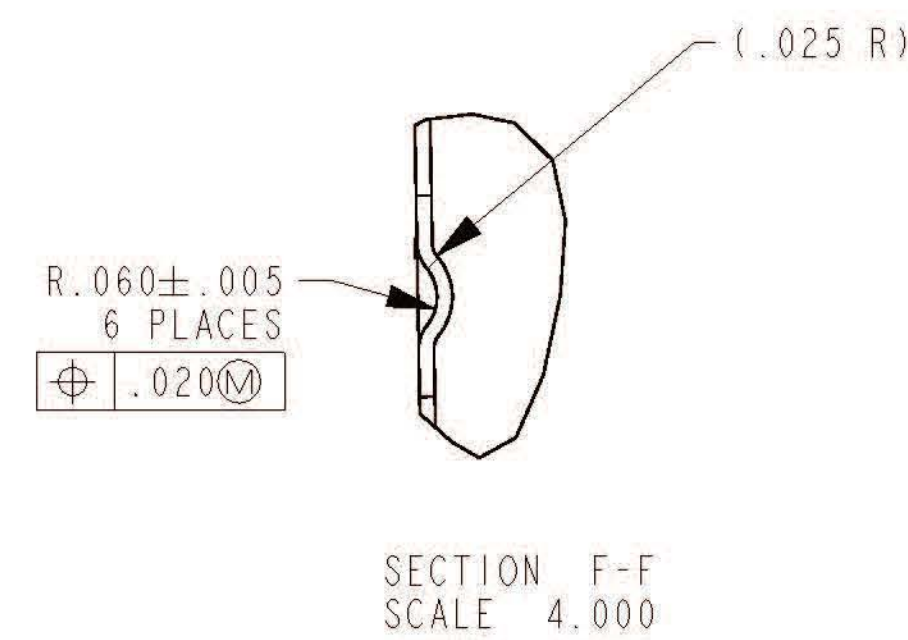
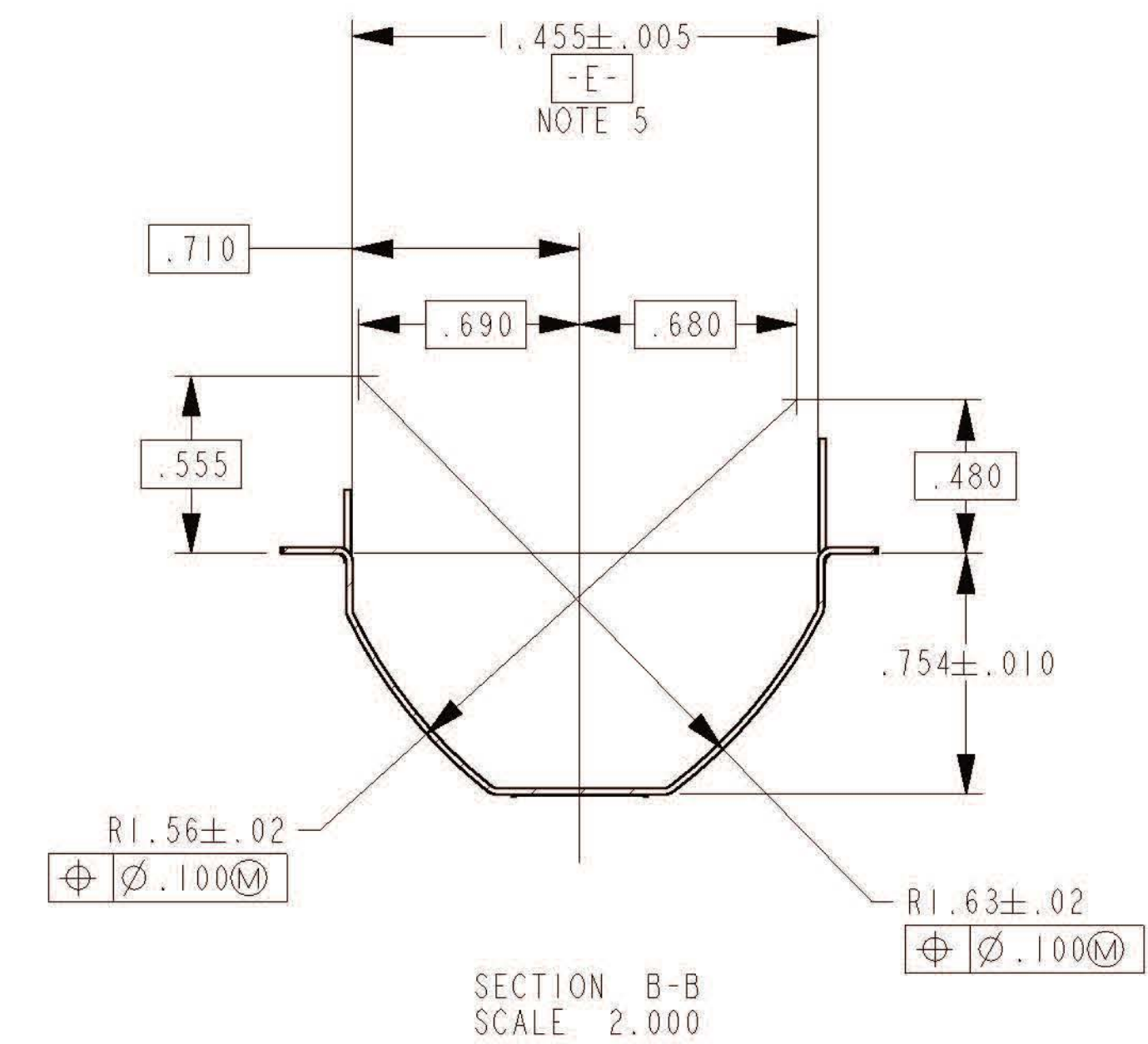
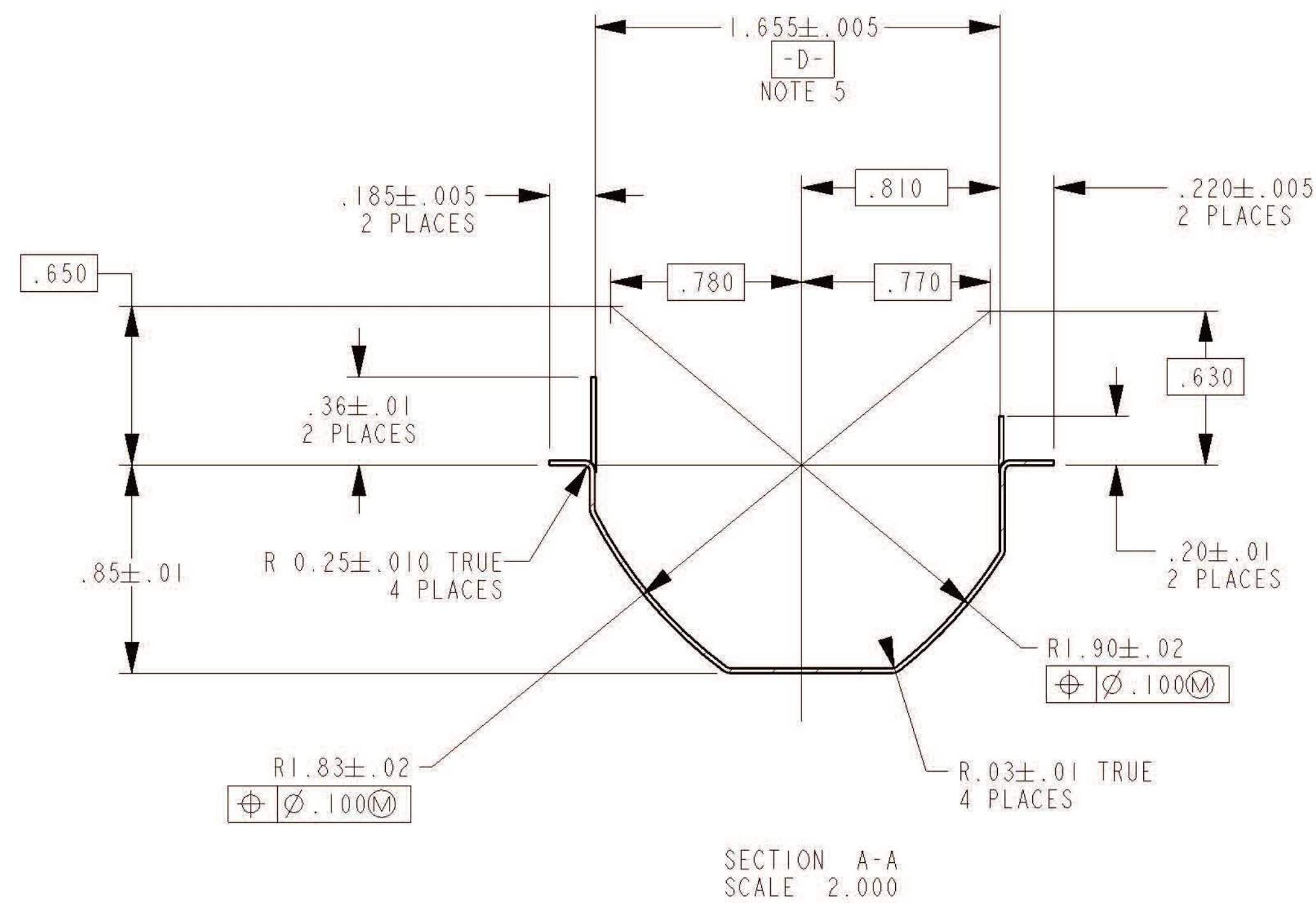
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NOT PROPRIETARY TO COLT'S.

Technical drawing of a vertical profile with dimensions and tolerances:

- Top dimension:  $R. 025 \pm .010$  AROUND CONTOUR 6 PLACES
- Left dimension:  $R. 62 \pm .01$  6 PLACES
- Left feature:  $\varnothing .020 \text{ M}$
- Force arrows:  $F$
- Bottom dimension:  $.025 \pm .005$  6 PLACES

SECTION C-C  
SCALE 4.000



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PART NO.	9390005
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DESIGN ACTIVITY US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

LINER, OUTER,  
HANDGUARD

SIZE <b>D</b>	CAGE CODE 19200	DWG NO. 9390005
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SCALE	UNIT WT.	SHEET 2 OF 2
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DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC;  
AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.







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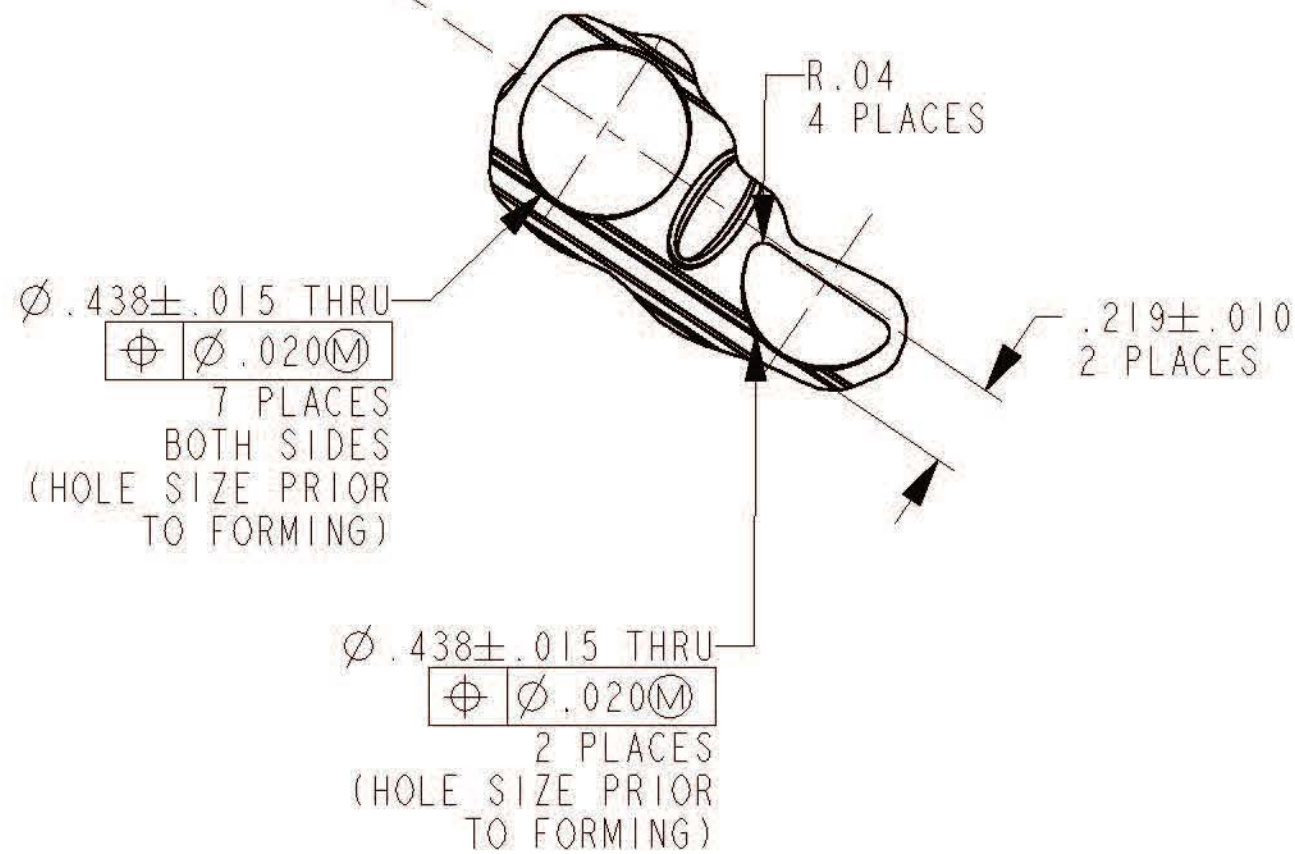
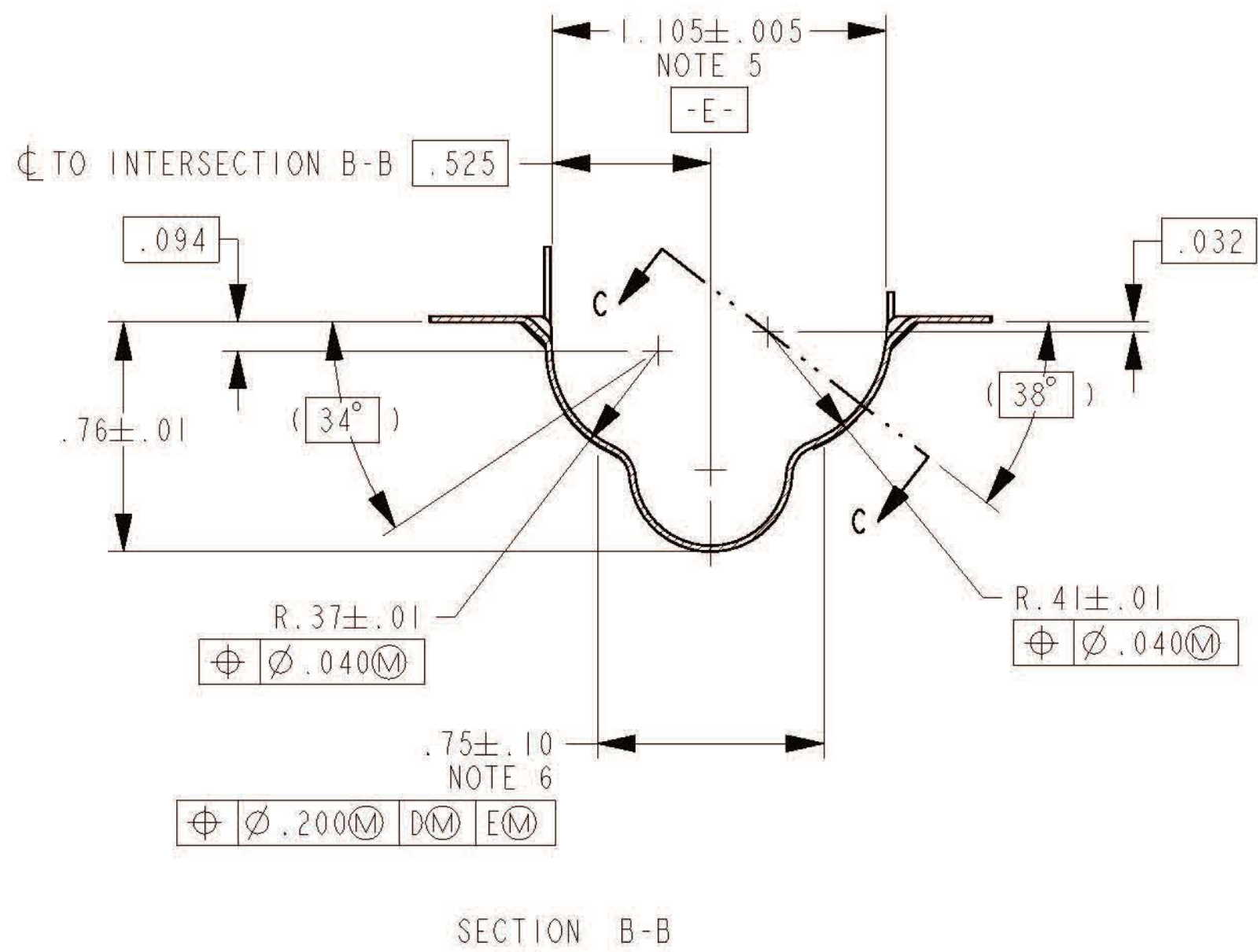
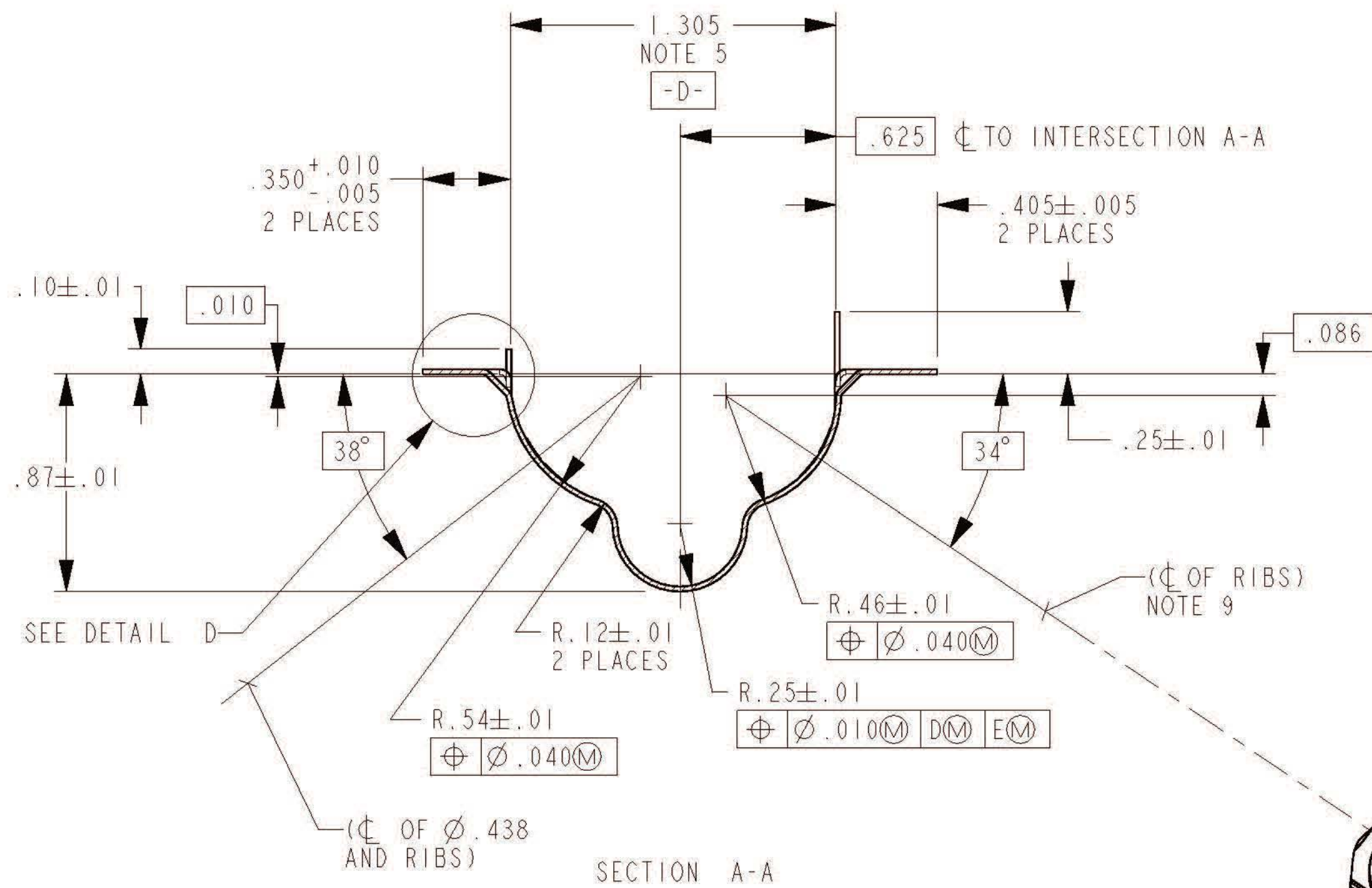
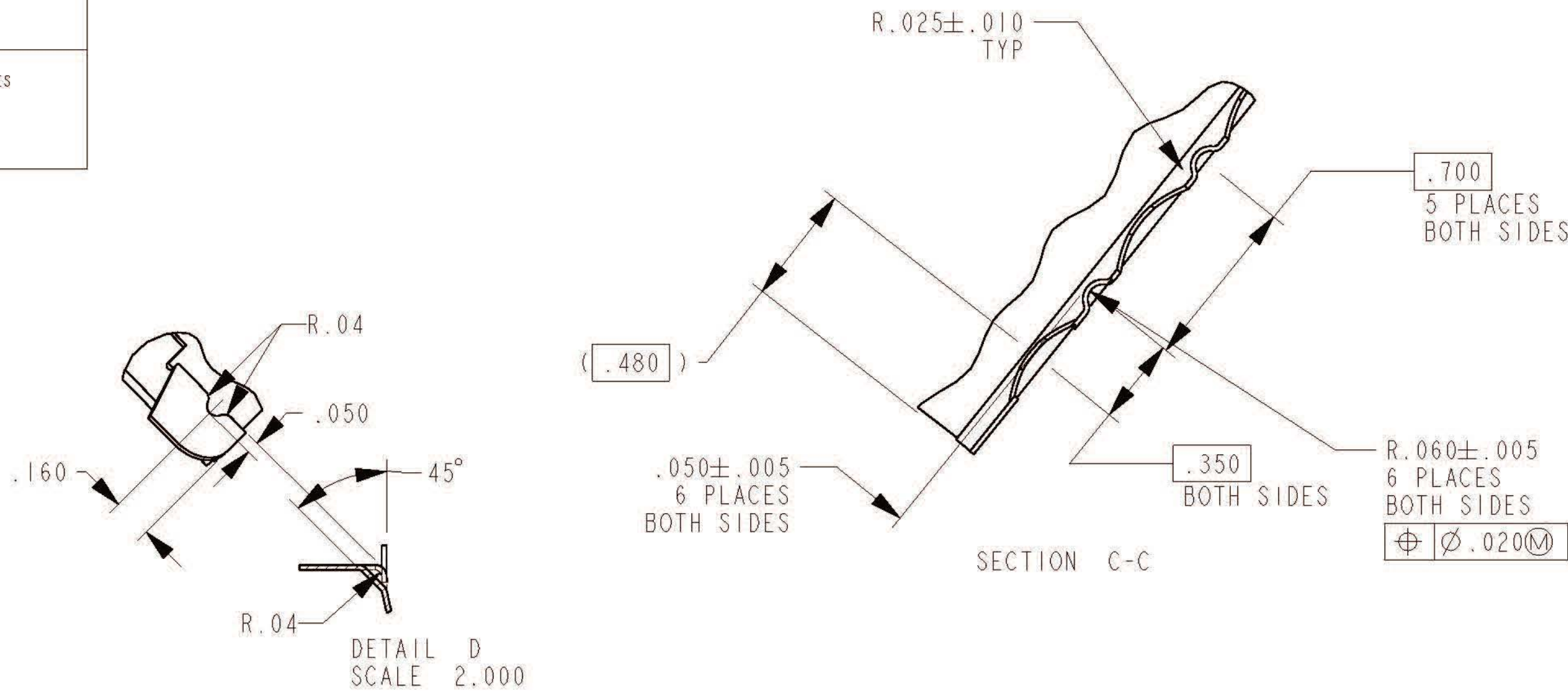
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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE/YEAR-MO-DAI	APPROVED
A	J	NOR L3S3161 / 2004-03-31	2004-08-13	RLV



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PART NO. 9390006

DESIGN ACTIVITY US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

LINER, INNER,  
HANDGUARD

SIZE D CAGE CODE 19200 DWG NO. 9390006

SCALE UNIT WT. SHEET 2 OF 2

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC;  
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NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:  
A. MIL-W-13855  
B. ANSI Y14.5M-1982

2. MATERIAL: ALUMINUM ALLOY 7075-T6 PER ASTM B 221, ASTM B 241, OR ASTM B 247.

3. DIMENSIONS APPLY PRIOR TO PROTECTIVE FINISH EXCEPT AS NOTED.

4. BREAK EDGES .005<sup>+0.010</sup><sub>-.000</sub> EXCEPT AS NOTED.

5. FILLET RADIUS SHALL BE R.003<sup>+0.012</sup><sub>-.000</sub> EXCEPT AS NOTED.

6. SURFACE FINISH: 125<sup>✓</sup> EXCEPT AS NOTED.

7. PROTECTIVE FINISH: FINISH 7.5.2 OF MIL-STD-171 AND SEAL. FILM THICKNESS: .0010±.0002. COLOR: APPROXIMATELY COLOR NO. 37038 (LUSTERLESS BLACK) BUT NOT LIGHTER THAN COLOR NO. 36076 OF FED-STD-595.

8. APPLY SOLID FILM LUBRICANT TO INTERIOR ONLY. THICKNESS: .0002 TO .0004. USE EVERLUBE 626 CURED AT 275±25° F FOR ONE HOUR OR MIL-PRF-46010 CURED AT 300° TO 325° F FOR TWO HOURS.

9. MASK THREADS AND GRIT BLAST EXTERIOR PRIOR TO PROTECTIVE FINISH TO PRODUCE A NON-REFLECTIVE MATTE SURFACE AFTER PROTECTIVE FINISH.

10. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

401

Y

MATERIAL

402

Y

PROTECTIVE FINISH

403

Y

SOLID FILM LUBRICANT

105

III

C

1.448<sup>+0.000</sup><sub>-.010</sub>

106

III

C

.493<sup>+0.000</sup><sub>-.006</sub>

107

III

C

Ø.084<sup>+0.020</sup><sub>-.000</sub>

Ø.020<sup>Ⓜ</sup><sub>Ⓜ</sub>

Ø.020<sup>Ⓜ</sup><sub>Ⓜ</sub>

-F-

104

III

C

Ø1.149<sup>+0.000</sup><sub>-.006</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

-E-

GⓂ

103

III

C

1.1875 -16 UN-2A MOD.

MAJOR Ø 1.1848-1.1758 BEFORE COATING

PITCH Ø 1.1430-1.1387 BEFORE COATING

MINOR Ø 1.1081 MAX BEFORE COATING

MAJOR Ø 1.1860-1.1766 AFTER COATING

PITCH Ø 1.1454-1.1403 AFTER COATING

MINOR Ø 1.1093 MAX AFTER COATING

102

III

C

7.009<sup>+0.000</sup><sub>-.010</sub>

.238<sup>+0.000</sup><sub>-.010</sub>

R.05<sup>+0.02</sup><sub>-.00</sub>

.005 MAX MISMATCH

207

II

C

1.625±.005

208

II

C

2.440±.005

202

II

C

3.250±.005

203

II

V

3.84±.01

201

II

C

Ø.325<sup>+0.010</sup><sub>-.000</sub>

Ø.004<sup>Ⓜ</sup><sub>Ⓜ</sub>

FⓂ

204

II

V

Ø.313<sup>+0.003</sup><sub>-.000</sub>

FLAT BOTTOM

4 HOLES TO DEPTH SHOWN

Ø.004<sup>Ⓜ</sup><sub>Ⓜ</sub>

FⓂ

205

II

C

Ø.004<sup>Ⓜ</sup><sub>Ⓜ</sub>

FⓂ

206

II

V

.126<sup>+0.001</sup><sub>-.000</sub>

Ø.015<sup>Ⓜ</sup><sub>Ⓜ</sub>

Ø.004<sup>Ⓜ</sup><sub>Ⓜ</sub>

FⓂ

GⓂ

210

II

V

1.166<sup>+0.000</sup><sub>-.016</sub>

R.07<sup>+0.00</sup><sub>-.02</sub>

63<sup>✓</sup>

209

II

V

1.35 MAX RUNOUT

1.14 MIN MINOR DIAMETER

1.00<sup>+0.00</sup><sub>-.04</sub>

208

II

C

30°±1°

1.45<sup>+0.05</sup><sub>-.00</sub>

207

II

C

1.45<sup>+0.010</sup><sub>-.000</sub>

.30<sup>+0.01</sup><sub>-.00</sub>

105

III

C

Ø1.149<sup>+0.000</sup><sub>-.006</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

-E-

GⓂ

104

III

C

Ø1.149<sup>+0.000</sup><sub>-.006</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

-E-

GⓂ

103

III

C

Ø1.149<sup>+0.000</sup><sub>-.006</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

-E-

GⓂ

102

III

C

Ø1.149<sup>+0.000</sup><sub>-.006</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

-E-

GⓂ

101

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

100

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

99

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

98

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

97

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

96

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

95

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

94

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

93

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

92

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

91

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

90

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

89

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

88

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

87

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

86

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

85

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

84

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

83

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

82

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

81

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

80

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

79

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

78

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

77

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

76

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

75

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

74

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

73

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

72

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

71

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

70

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

69

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

68

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

67

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

66

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

65

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

64

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

63

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

62

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

61

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

60

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

59

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

58

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

57

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

56

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

-E-

GⓂ

55

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

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54

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

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GⓂ

53

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

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GⓂ

52

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

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GⓂ

51

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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50

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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49

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

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48

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

GⓂ

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47

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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46

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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45

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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44

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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43

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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42

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

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41

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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40

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

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39

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

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38

III

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37

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

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36

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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35

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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34

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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32

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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31

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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30

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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29

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

Ø.005<sup>Ⓜ</sup><sub>Ⓜ</sub>

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28

III

C

Ø.997<sup>+0.006</sup><sub>-.000</sub>

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27

III

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Ø.997<sup>+0.006</sup><sub>-.000</sub>

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25

III

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DUE TO GOVERNMENT GENERATED ENGINEERING  
CHANGES, THERE MAY BE DATA AND/OR TOLERANCES  
NOT PROPRIETARY TO COLT'S.

SHEET 1 OF 1







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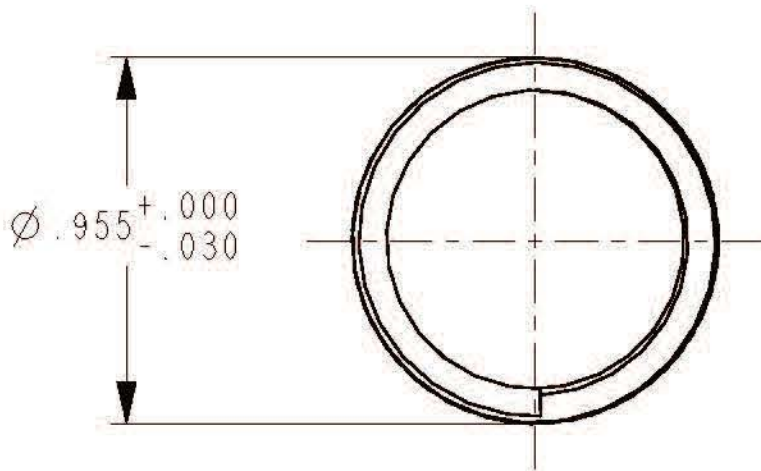
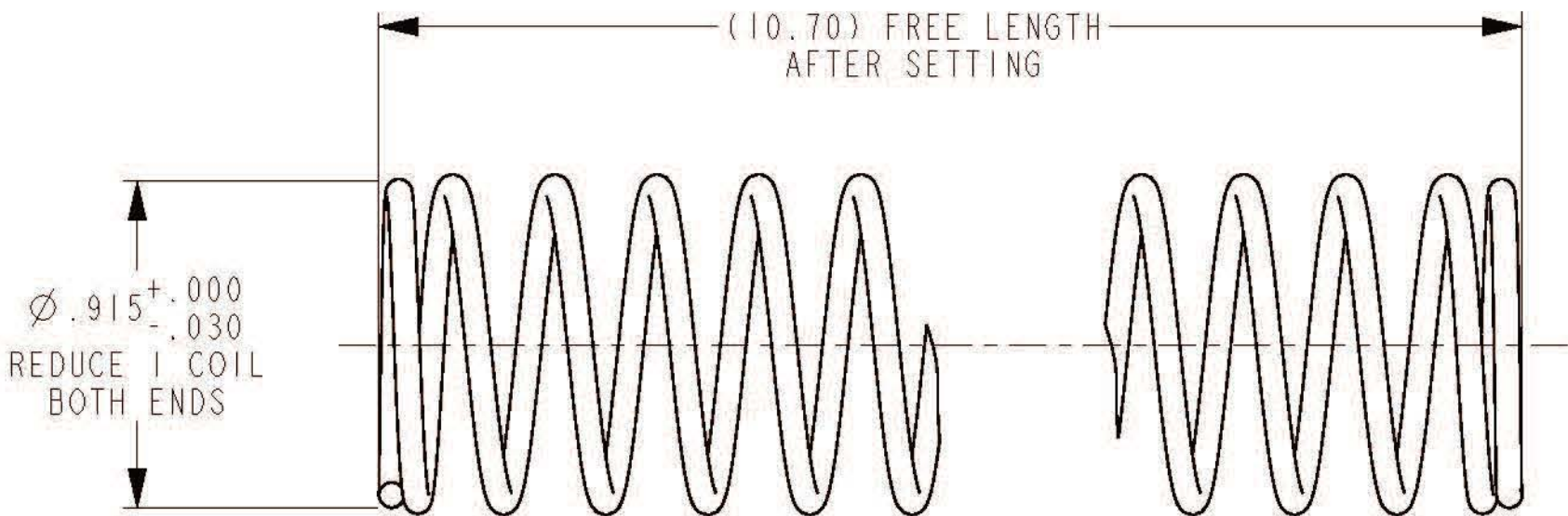
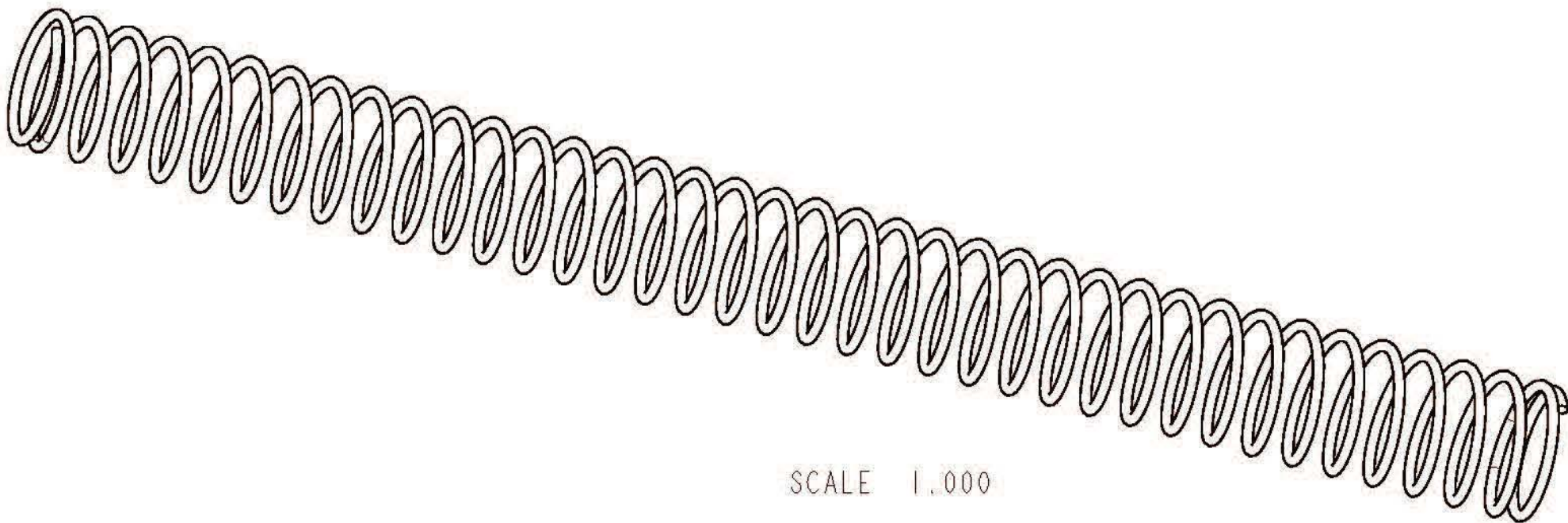
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCTION RELEASE 67S2003	1987-03-18	
-	A	NOR L2S3042 / 2002-08-05	2002-09-26	JJW

NOTES

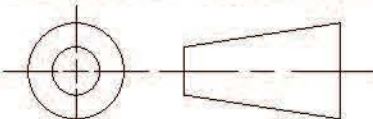
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855  
B. ANSI Y14.5M-1982
2. MATERIAL: WIRE, STAINLESS STEEL, TYPE 631 (17-7PH), COLD DRAWN, PER ASTM - A313.
3. WIRE DIAMETER: .072±.001
4. DIRECTION OF HELIX: OPTIONAL
5. HTOTAL NO. OF COILS: (38)
6. LOAD AT COMPRESSED LENGTH OF 2.980 = 12.12 LBS. ±1.0 LBS.
7. LOAD AT COMPRESSED LENGTH OF 6.902 = 5.96 LBS. ±.5 LBS.
8. MAX. SOLID HEIGHT: 2.847
9. BREAK SHARP EDGES .003±.012
10. SPRING REQUIREMENTS APPLY AFTER COMPRESSING TO SOLID LENGTH.
11. FINISH 125/ALL SURFACES
12. MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572, EXCEPT PARAGRAPH 4.4.4.1 SHALL NOT APPLY.
13. PRECIPITATION HARDEN AFTER FORMING TO COND. CH900. HOLD AT 900°F±10°F FOR ONE HOUR, AIR COOL.
14. HARDNESS EQUIV. TO ROCKWELL C48 MIN.
15. ENDS REDUCED, CLOSED, AND SQUARED.
16. PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.
17. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



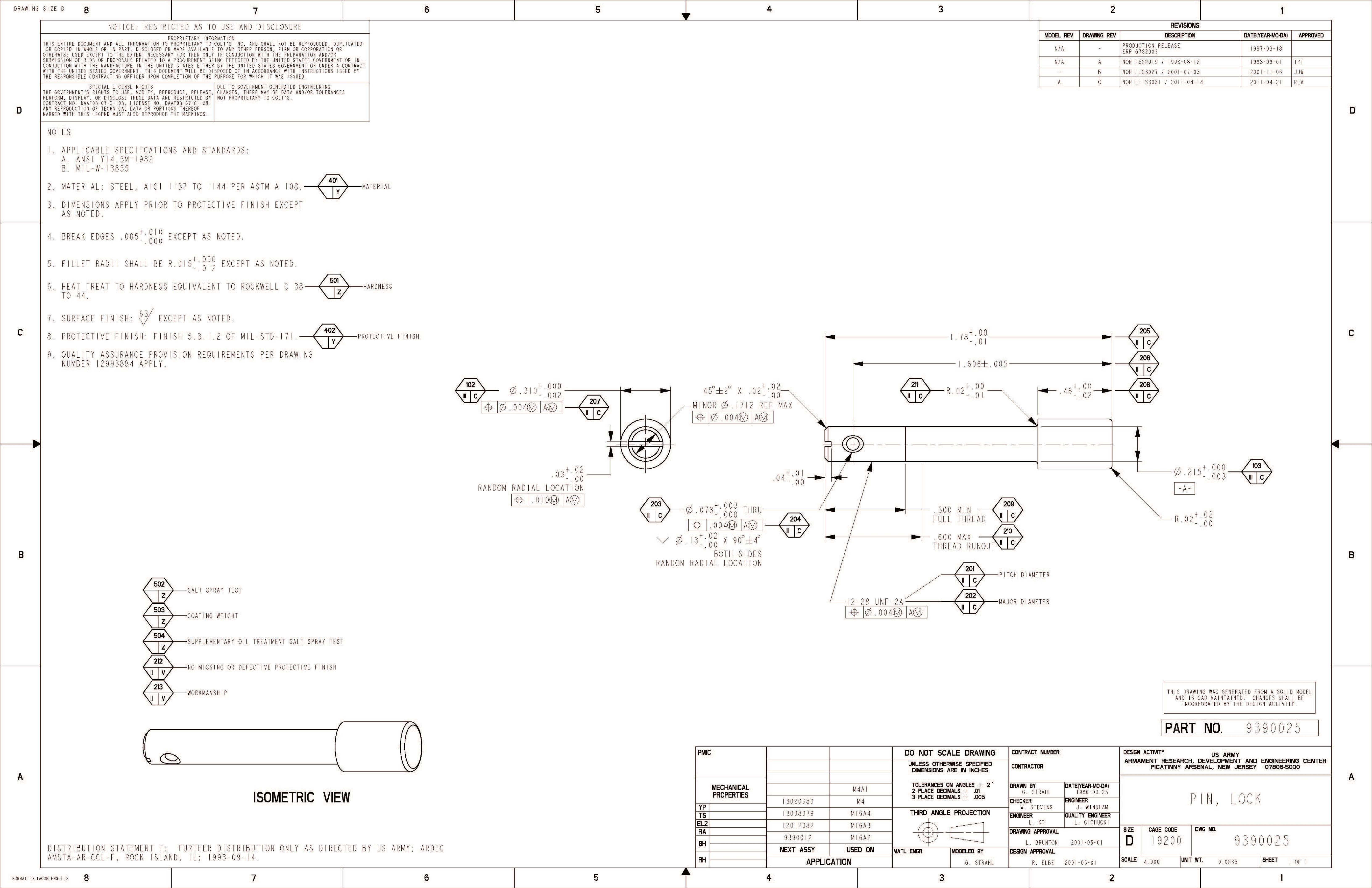
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PART NO. 9390022

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								SPRING, ACTION				
MECHANICAL PROPERTIES				<div>THIRD ANGLE PROJECTION</div> 								
YP												
TS												
EL2												
RA			M4A1			SIZE		CAGE CODE	DWG NO.			
BH		9390011	M4			C		19200	9390022			
RH		NEXT ASSY	USED ON	MATL ENGR	MODELED BY							
		APPLICATION			LORAS W. - ESERV			SCALE	2	UNIT WT.	0.125	SHEET







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REVISIONS

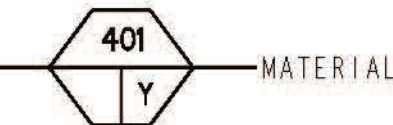
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCTION RELEASE ERR 67S2003	1987-03-18	
N/A	A	NOR L8S2015 / 1998-08-12	1998-09-01	TPT
-	B	NOR LIS3027 / 2001-07-03	2001-11-06	JJW
A	C	NOR LIIS3031 / 2011-04-14	2011-04-21	RLV

NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:

- A. ANSI Y14.5M-1982
- B. MIL-W-13855

2. MATERIAL: STEEL, AISI 1137 TO 1144 PER ASTM A 108.

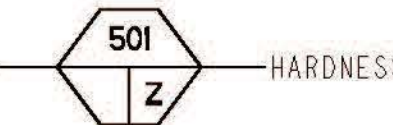


3. DIMENSIONS APPLY PRIOR TO PROTECTIVE FINISH EXCEPT AS NOTED.

4. BREAK EDGES .005<sup>+</sup><sub>-.000</sub> EXCEPT AS NOTED.

5. FILLET RADII SHALL BE R.015<sup>+</sup><sub>-.012</sub> EXCEPT AS NOTED.

6. HEAT TREAT TO HARDNESS EQUIVALENT TO ROCKWELL C 38 TO 44.

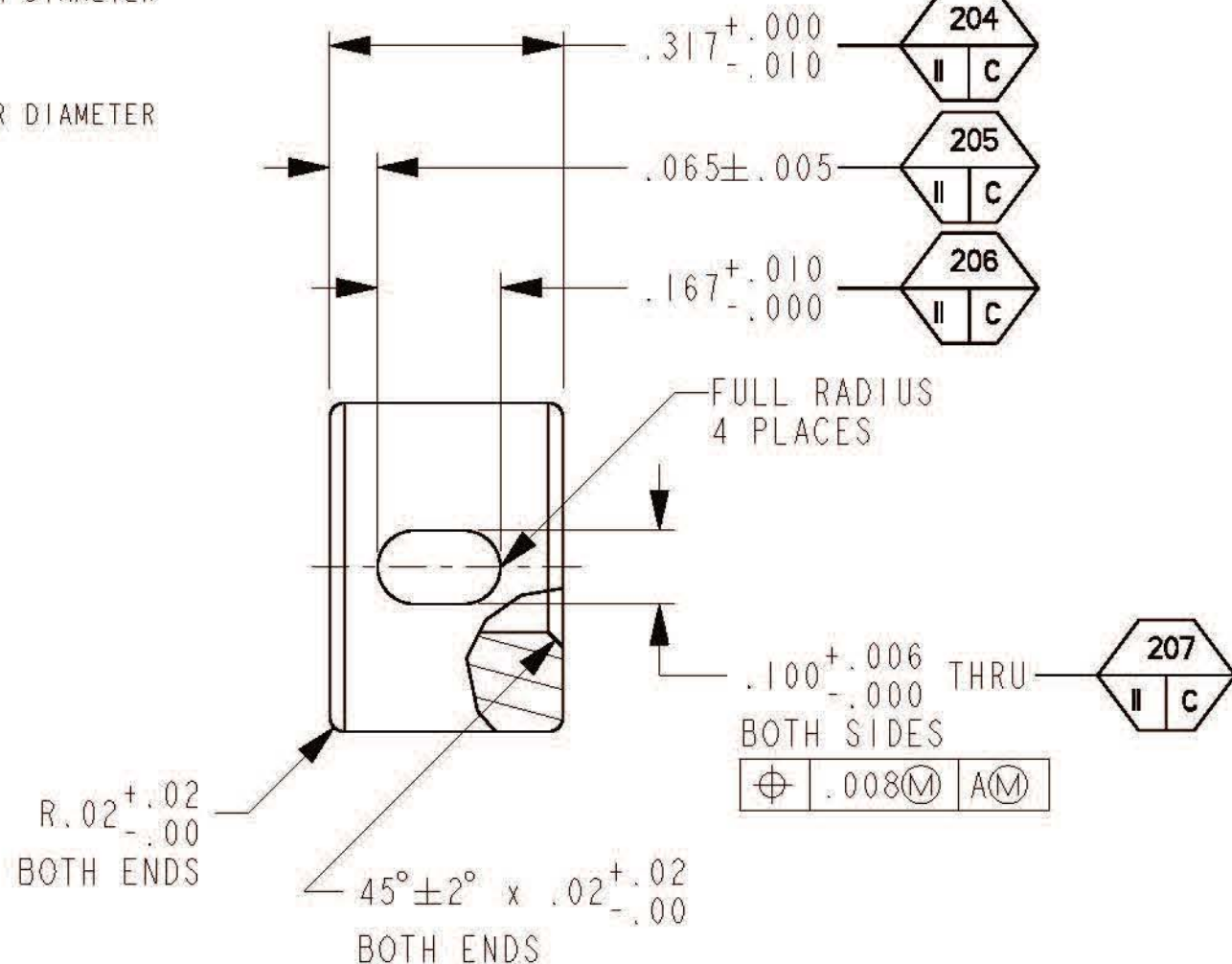
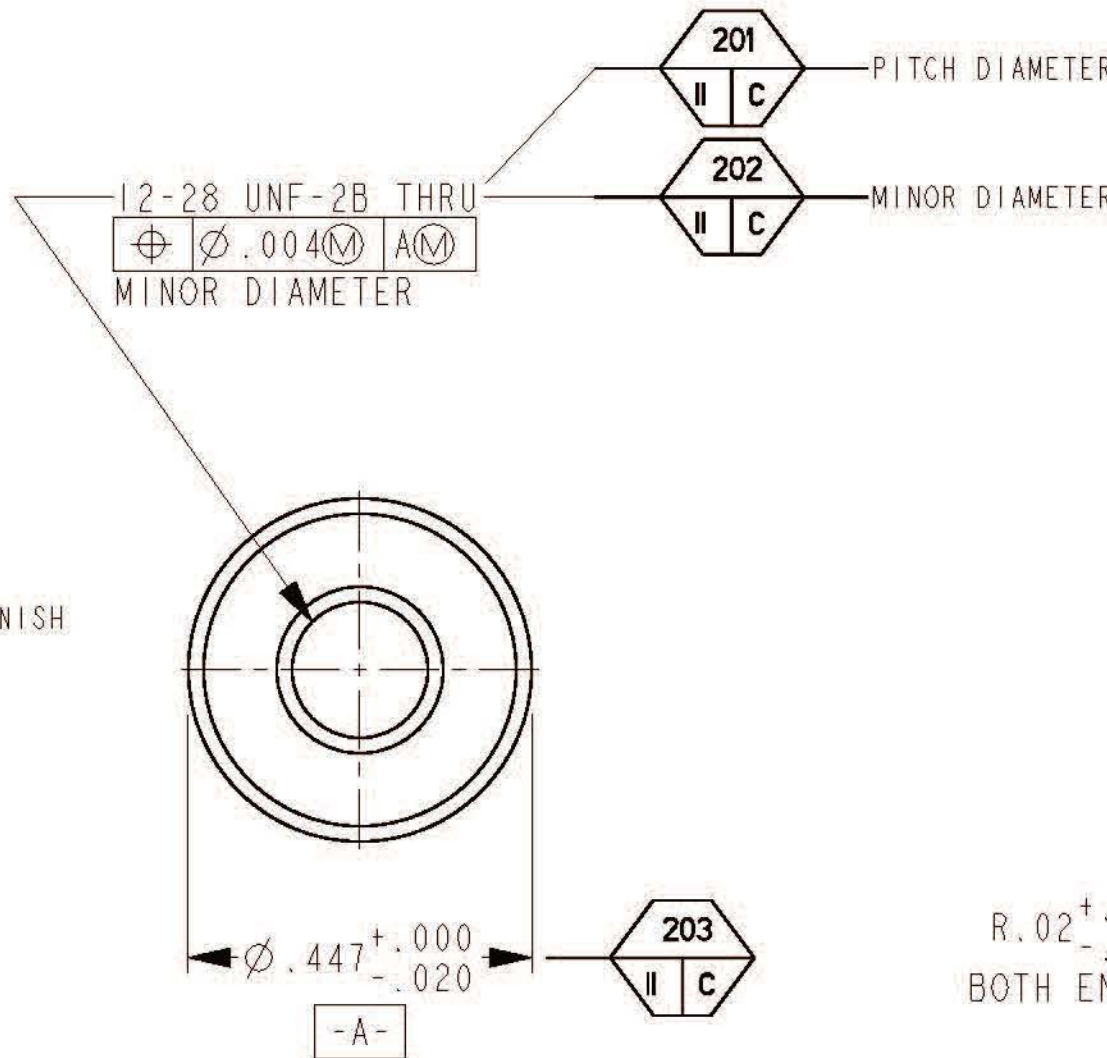
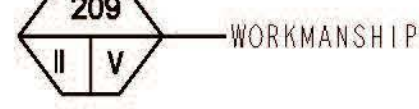
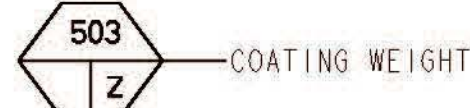


7. SURFACE FINISH: 125/ EXCEPT AS NOTED.

8. PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.



9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

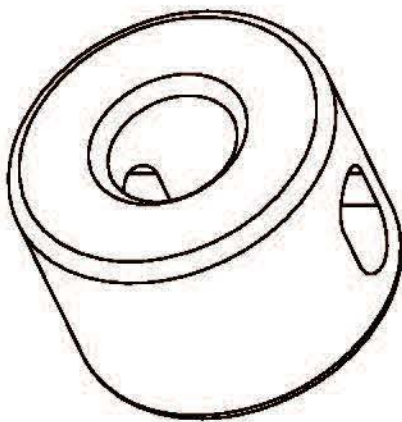


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PART NO. 9390026

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			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
MECHANICAL PROPERTIES		M4A1	TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	DRAWN BY L. KO	DATE(YEAR-MO-DA) 1986-03-24
YP	13020680	M4	THIRD ANGLE PROJECTION	CHECKER W. STEVENS	ENGINEER J. WINDHAM
TS	13008079	M16A4		ENGINEER L. KO	QUALITY ENGINEER L. CICHUCKI
EL2	12012082	M16A3		DRAWING APPROVAL L. BRUNTON	2001-05-01
RA	9390012	M16A2		DESIGN APPROVAL R. ELBE	2001-05-01
BH		NEXT ASSY			
RH		USED ON			
		APPLICATION			



ISOMETRIC VIEW



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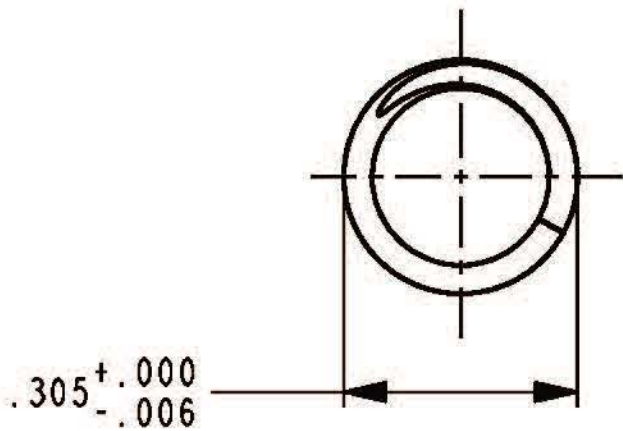
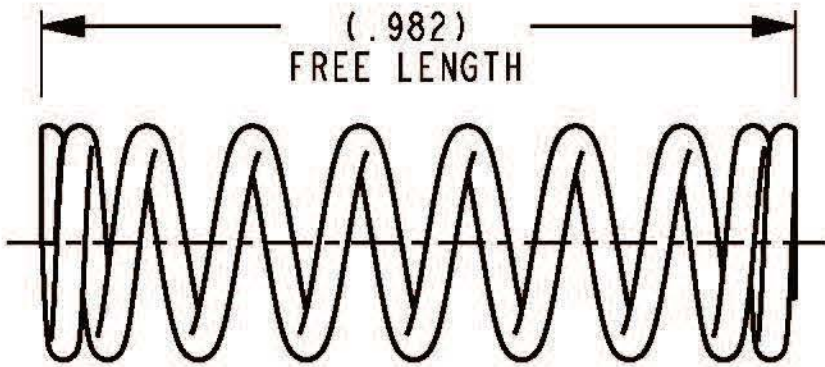
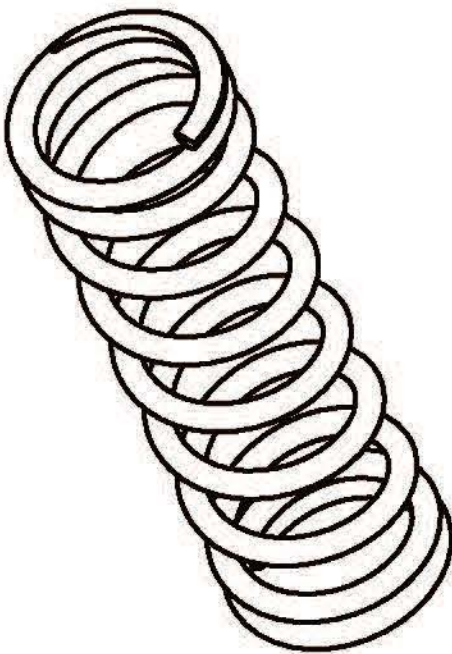
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCTION RELEASE ERR G7S2003	87-03-18	
N/A	A	ERR Z9Z1212AL (ECP G8S3109 / 881027)	891023	
N/A	B	NOR L8S2015 / 980812	980901	TPT
-	C	NOR LIS3027 / 2001-07-03	2001-11-06	JJW

NOTES

- APPLICABLE SPECS/STANDARDS:
  - MIL-W-13855
  - ANSI Y14.5M-1982
- MATERIAL: WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
- WIRE DIAMETER: .03700±.00075
- DIRECTION OF HELIX: OPTIONAL
- TOTAL NO. OF COILS: (9)
- LOAD AT COMPRESSED LENGTH OF .672=5.9 LBS.±.25 LBS.
- SOLID LENGTH: .342 MAX
- BREAK SHARP EDGES .003±.012
- SPRING REQUIREMENTS APPLY AFTER COMPRESSING TO SOLID LENGTH 3 TIMES.
- SURFACE FINISH 125/ALL SURFACES.
- MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572, EXCEPT PARAGRAPH 4.4.4.1 SHALL NOT APPLY.
- PRECIPITATION HARDEN AFTER FORMING TO COND. CH900. HOLD AT 900°F±10°F FOR ONE HOUR, AIR COOL.
- HARDNESS EQUIV. TO ROCKWELL C48 MIN.
- ENDS CLOSED, GROUND AND SQUARED.
- PROTECTIVE FINISH: 5.4.1 OF MIL-STD-171.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



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PART NO. 9390027

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			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07808-6000	
MECHANICAL PROPERTIES			TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY D. COLLUM	DATE(YEAR-MO-DA) 1986-03-24	SPRING, LOCKING	
YP			THIRD ANGLE PROJECTION		CHECKER W. STEVENS	ENGINEER J. WINDHAM		
TS					ENGINEER L. KO	QUALITY ENGINEER L. CICHUCKI		
EL2	12012082	M4A1			DRAWING APPROVAL L. BRUNTON 2001-05-01			
RA	12012082	M4			DESIGN APPROVAL R. ELBE 2001-05-01		SIZE C	CAGE CODE 19200
BH		NEXT ASSY	USED ON	MATL ENGR	MODELED BY D. COLLUM	SCALE 4/1		UNIT WT.
RH		APPLICATION				SHEET 1 OF 1		



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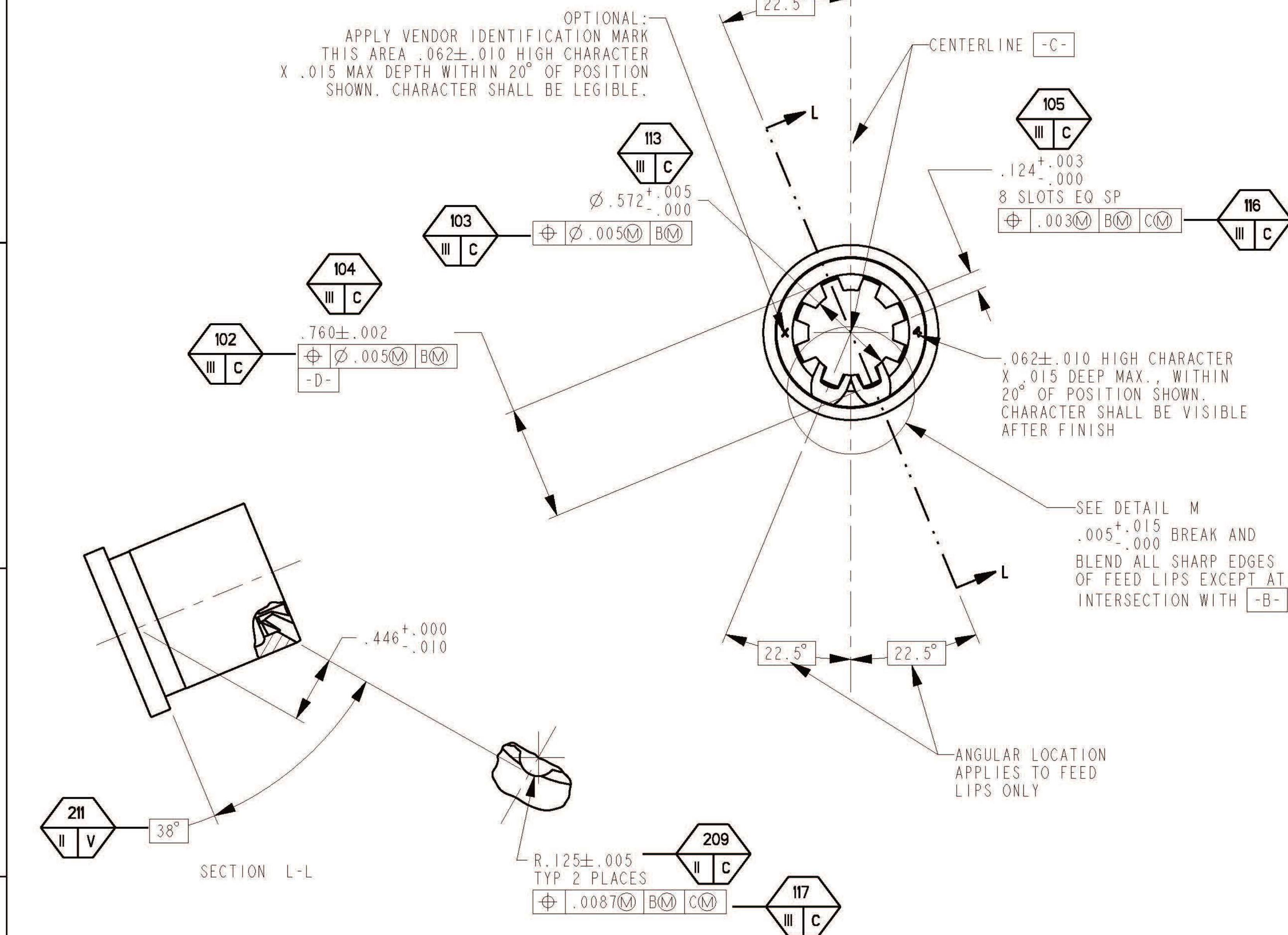
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- NOTES
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855  
B. ANSI Y14.5M-1982

2. MATERIAL: STEEL, AISI 8620 PER AMS 6274 OR AMS 6276, AIRCRAFT QUALITY.
3. SURFACE FINISH 63/.
4. FILLET RADII .015-.012
5. BREAK SHARP EDGES .005+.010
6. MINIMUM CASE DEPTH AFTER POST-HEAT TREAT MACHINING: .005.
7. POST-HEAT TREAT MACHINING ALLOWED ON SURFACES INDICATED.
8. CARBURIZE TO ROCKWELL 15N 89.0 TO 91.0 WITH EFFECTIVE CASE DEPTH OF .008 TO .012 BEFORE POST-HEAT TREAT MACHINING. THREAD TO BE MASKED OR PART TO BE PROCESSED, SO THAT THREAD IS NOT CARBURIZED. SUGGESTED HEAT TREAT PROCEDURE: LIQUID CARBURIZE AT 1550°F FOR 1 1/4 HOURS, AIR COOL, WASH CLEAN, STRESS RELIEVE AT 850°F FOR 1 HOUR, ROUGH MACHINE, REHEAT TO 1450°F, OIL QUENCH, TEMPER AT 350°F FOR 1 HOUR.
9. OPTIONAL STRESS RELIEF PERMITTED IN AREA SHOWN. MAXIMUM STRESS RELIEF TEMPERATURE 900°F. MINIMUM ALLOWABLE HARDNESS IN THIS AREA SHALL BE RN 15N 85.5.
10. TOLERANCES: ANGLES ±1°
11. THREAD PER MIL-S-7742
12. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

215 WORKMANSHIP

505 CASE DEPTH HARDNESS





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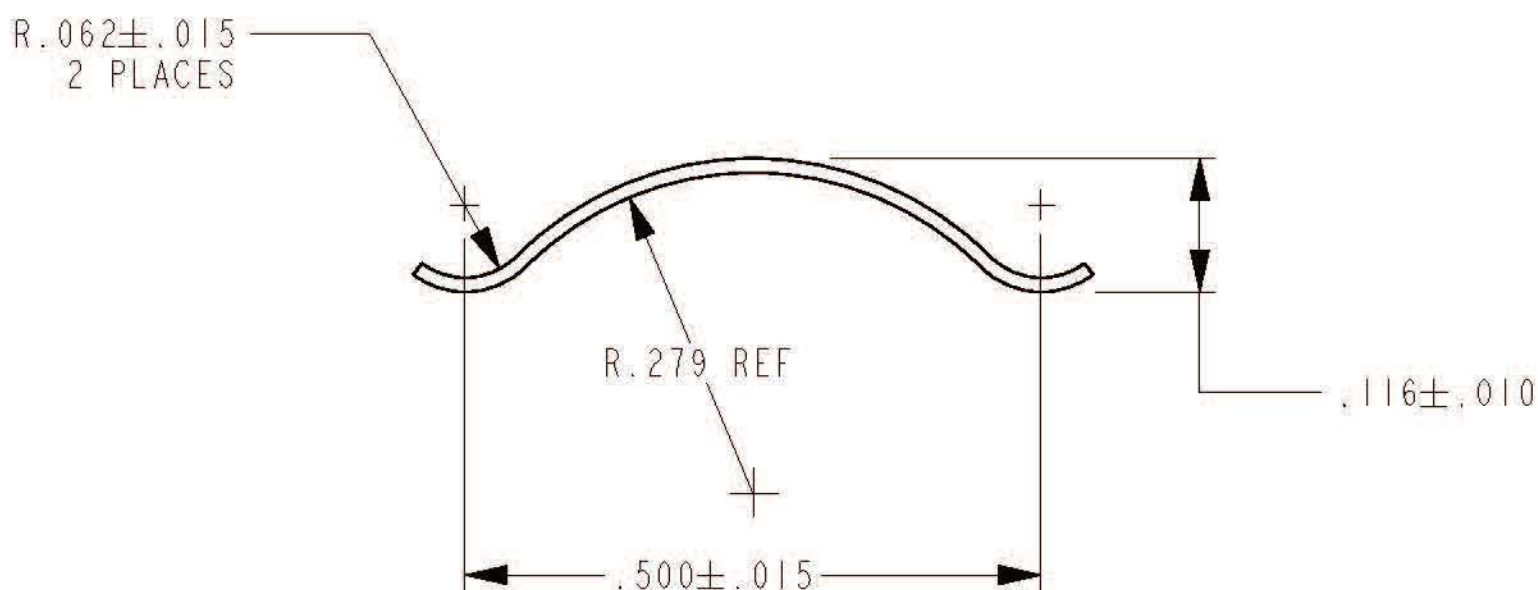
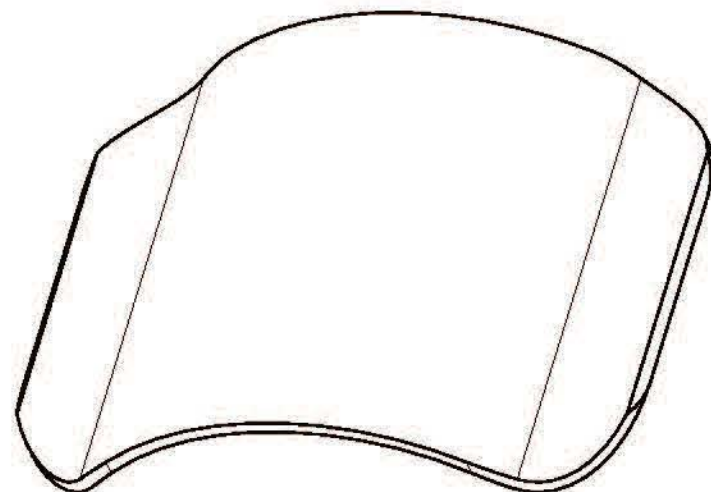
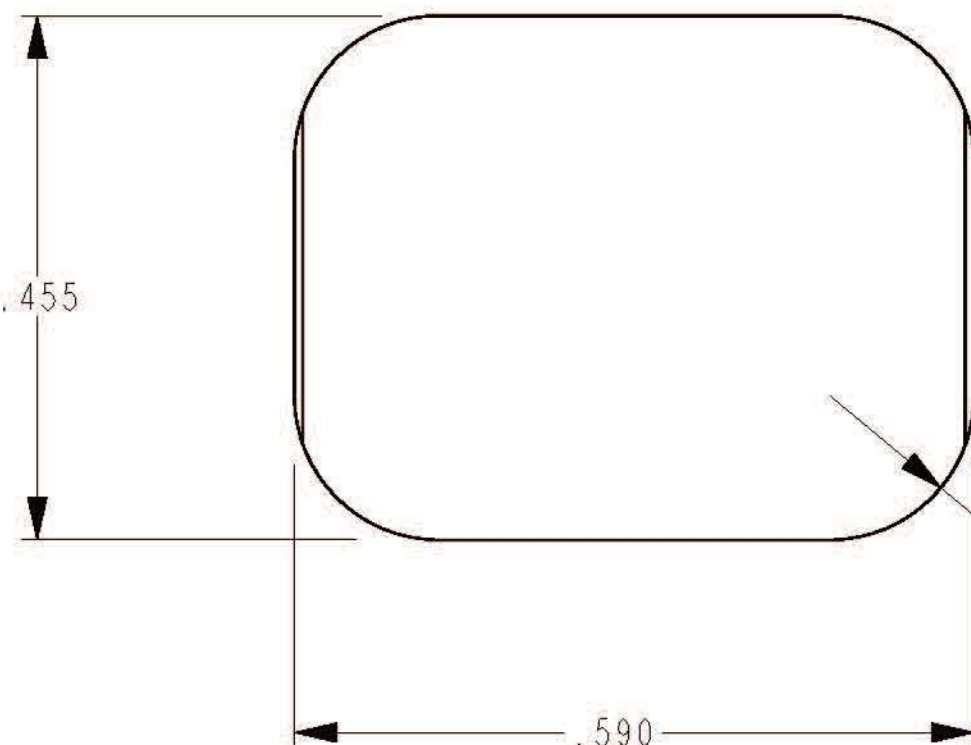
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR G1S3098	1991-10-10	RR
N/A	A	NOR G3S3028 / 1993-04-13	1993-05-21	DR
-	B	NOR L2S3024 / 2002-05-21	2002-07-30	JJW

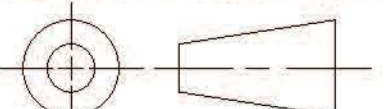
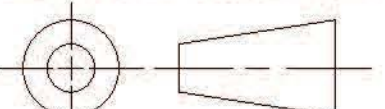
NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855
2. MATERIAL: STEEL, CARBON, UNTEMPERED SPRING QUALITY, ANEALD, CMPSN 1095, SPEC ASTM A684 OR AMS 5121, .010±.001 THICK.
3. FINAL PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171
4. SURFACE FINISH 63/EXCEPT SHEARED EDGES 250/
5. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
6. HARDNESS: DPH 484-528.
7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



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PART NO. 12011987

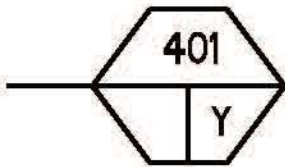
PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± .005	CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES			M4A1		THIRD ANGLE PROJECTION 	CONTRACTOR		SPRING, REAR SIGHT			
			M4			DRAWN BY D. COLLUM	DATE(YEAR-MO-DA) 1991-10-10				
			MI6A4			CHECKER J. MACON-ESERV	ENGINEER L. KO				
YP			MI6A3		ENGINEER J. WINDHAM	QUALITY ENGINEER E. SESE					
TS		8448602	MI6A2		DRAWING APPROVAL L. BRUNTON 2002-05-21		SIZE C	CAGE CODE 19200	DWG NO. 12011987		
EL2		8448523	MI6A1		DESIGN APPROVAL R. ELBE 2002-05-21						
RA											
BH		NEXT ASSY	USED ON	MATL ENGR	MODELED BY D. COLLUM						
RH		APPLICATION				SCALE 6/1 UNIT WT. 0.001 SHEET 1 OF 1					

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

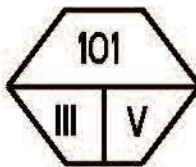


NOTES

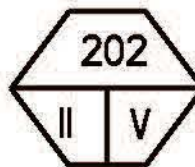
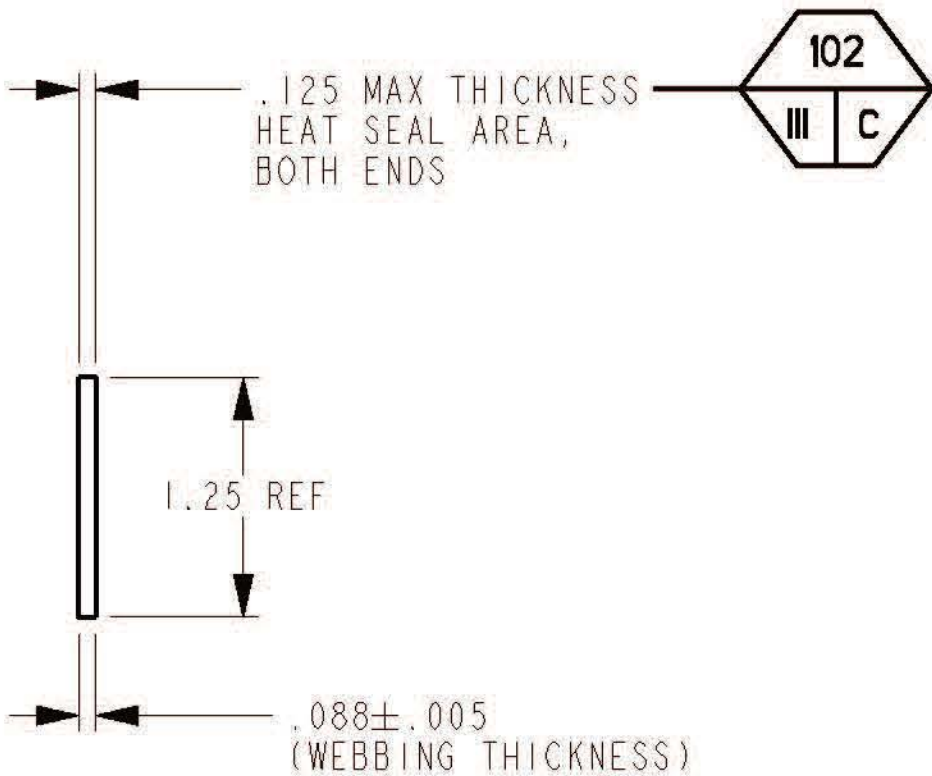
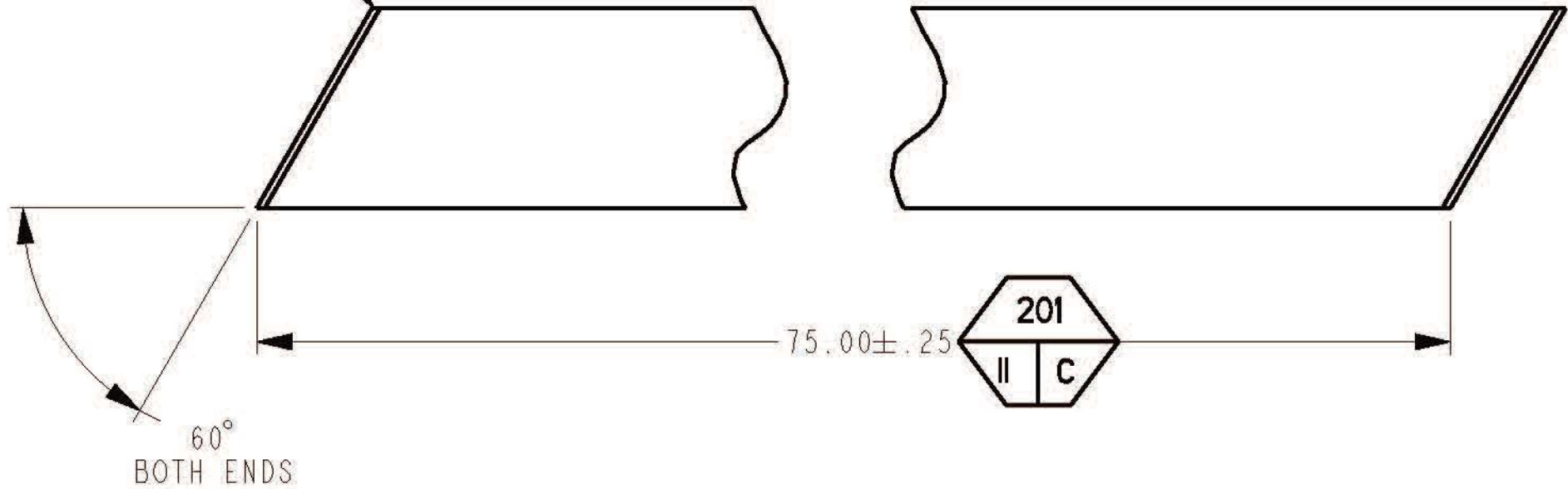
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-W-13855
2. MATERIAL: WEBBING, TEXTILE, BULKED NYLON, TYPE II, PER A-A-55301, EXCEPT WEIGHT SHALL BE 1.20 OZ/LIN. YD. MINIMUM. COLOR SHALL BE BLACK, NO.37030 TO 37038 OF FED-STD-595.
3. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.



REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR G2S9A50	1992-05-22	
N/A	A	NOR G3S3083 / 1993-09-02	1993-10-20	KC
N/A	B	NOR L1S2102 / 2001-08-23	2001-09-26	RLV
-	C	NOR L2S3028 / 2002-05-24	2002-07-30	JJW
A	D	NOR L09S3096 / 2009-07-08	2009-07-21	BMG



HEAT SEAL BOTH ENDS



WORKMANSHIP

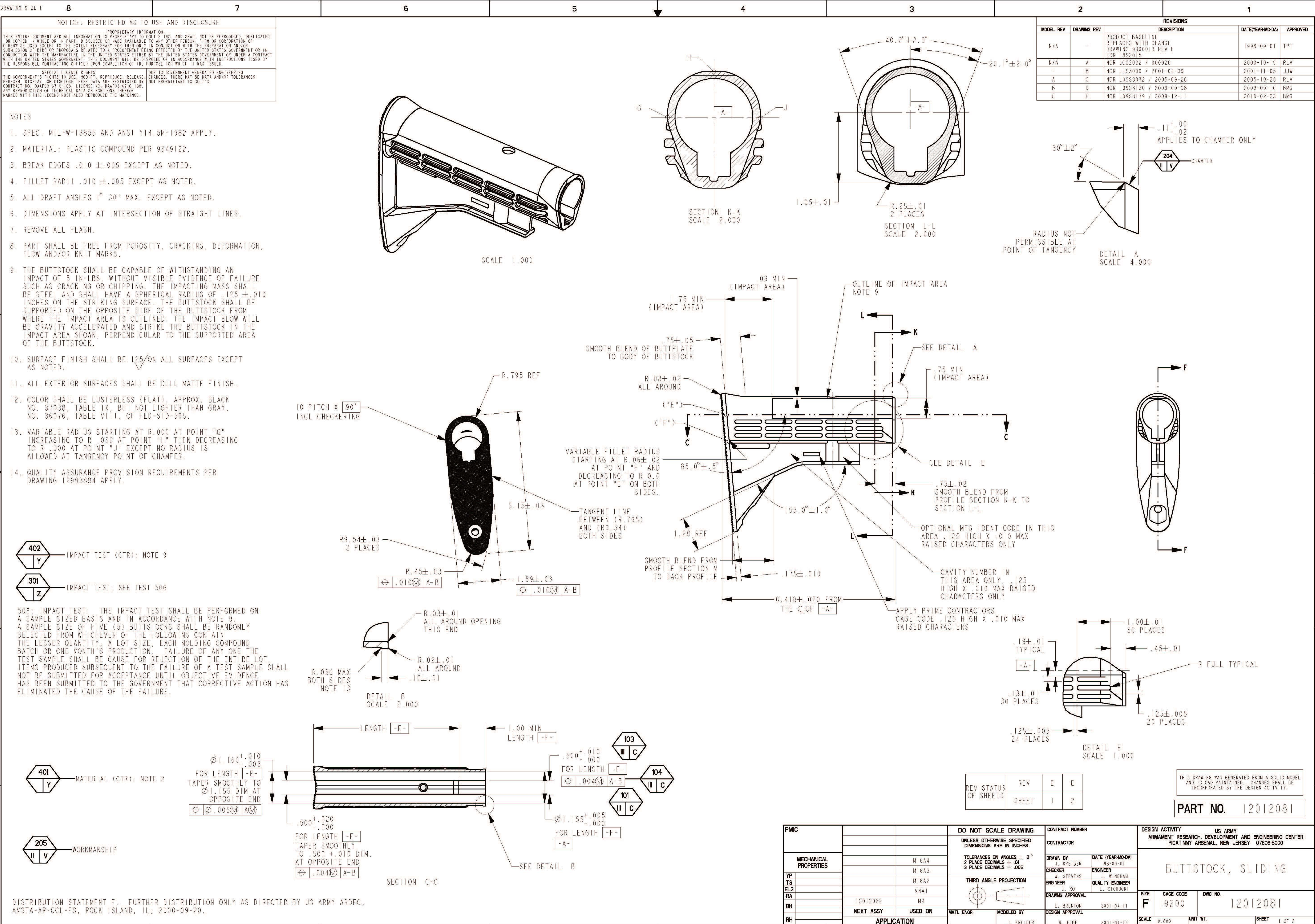
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PART NO. 12011995

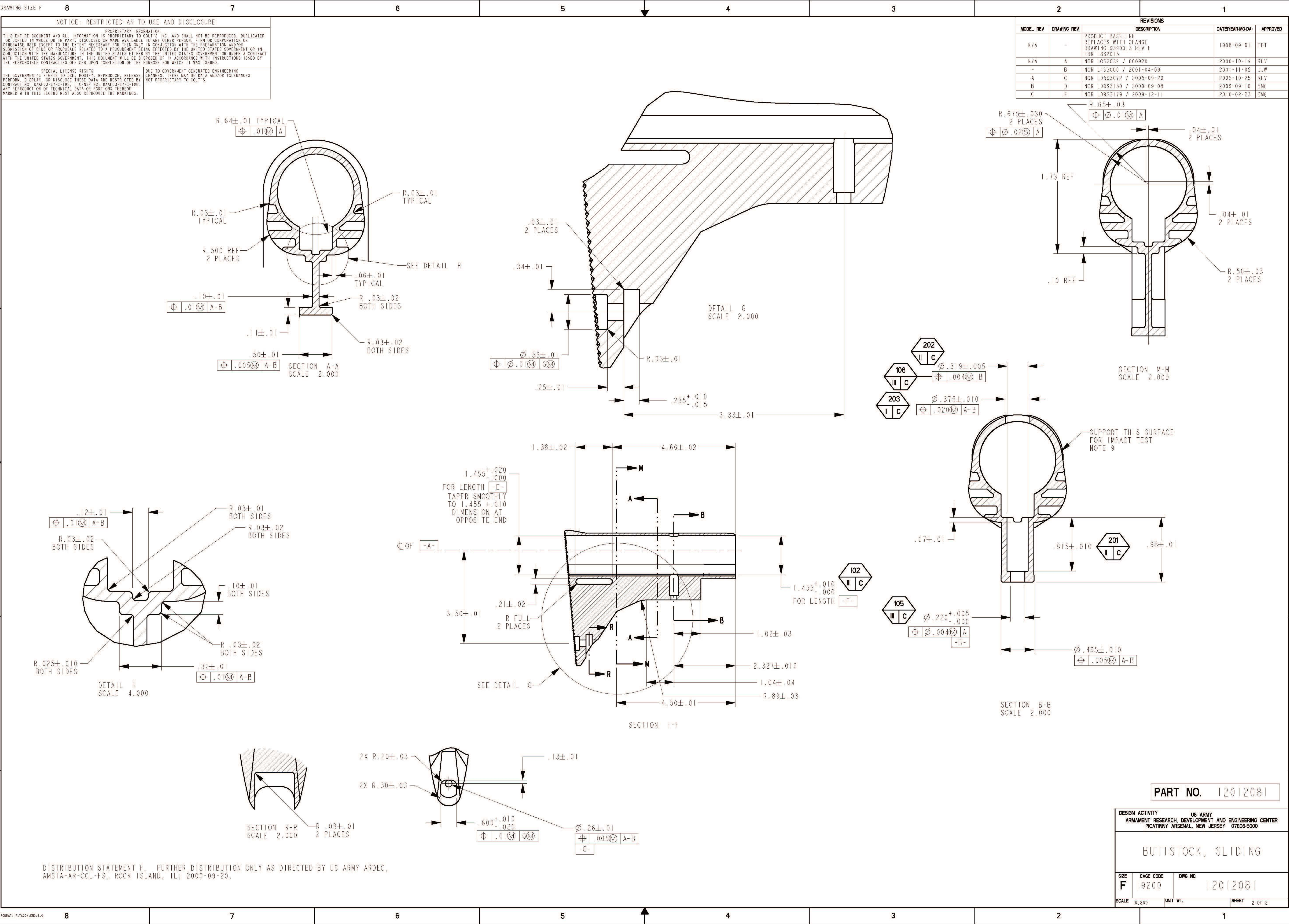
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				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000		
MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY D. COLLUM	DATE(YEAR-MO-DA) 1992-05-22	STRAP		
YP				THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM			
TS						ENGINEER L. KO	QUALITY ENGINEER E. SESE			
EL2						DRAWING APPROVAL L. BRUNTON 2002-05-24		SIZE C	CAGE CODE 19200	DWG NO. 12011995
RA						DESIGN APPROVAL R. ELBE 2002-05-24		SCALE 1	UNIT WT. 0.423	SHEET 1 OF 1
BH		12011996	M4A1							
RH		NEXT ASSY	USED ON							
		APPLICATION								

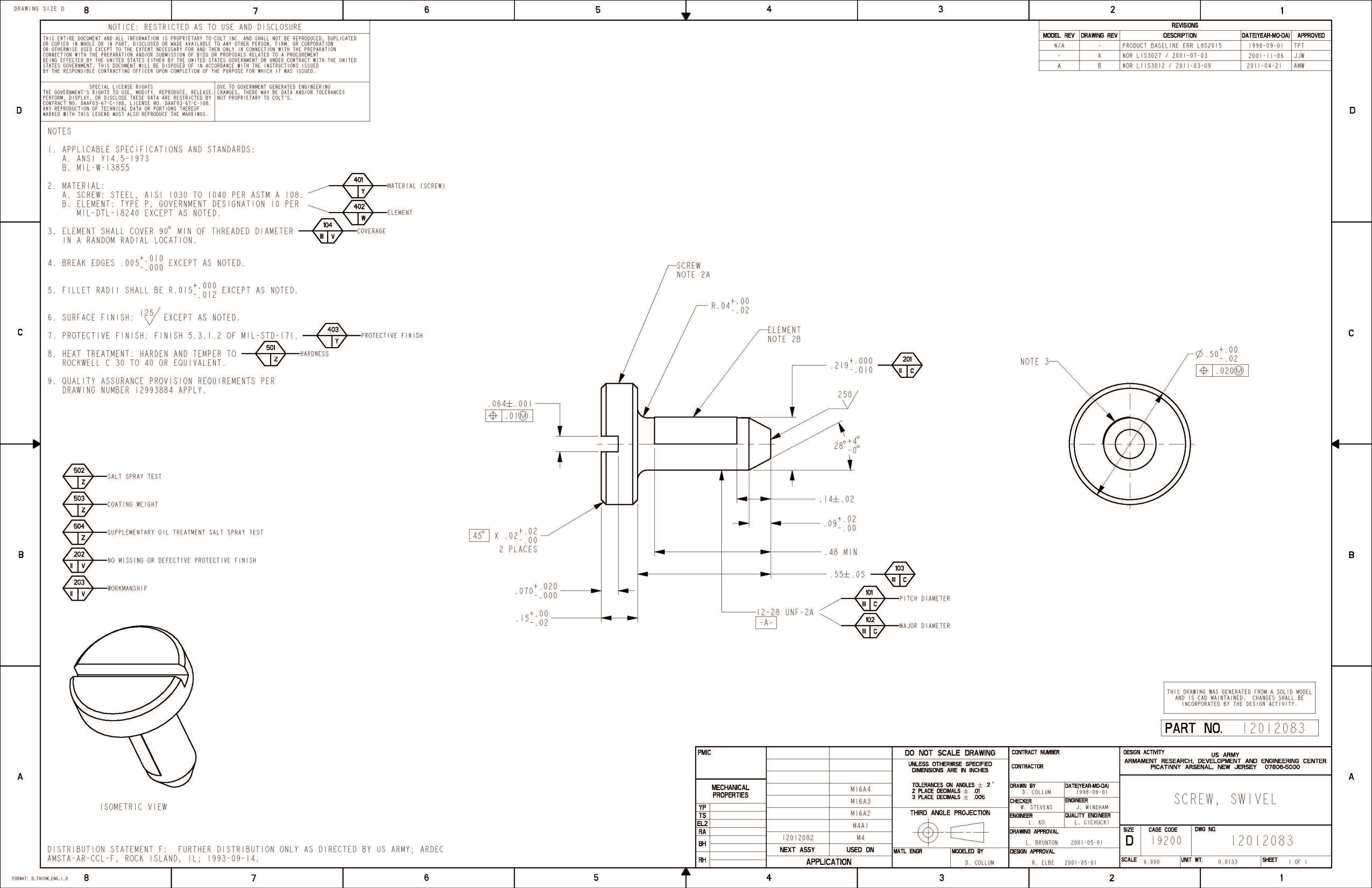








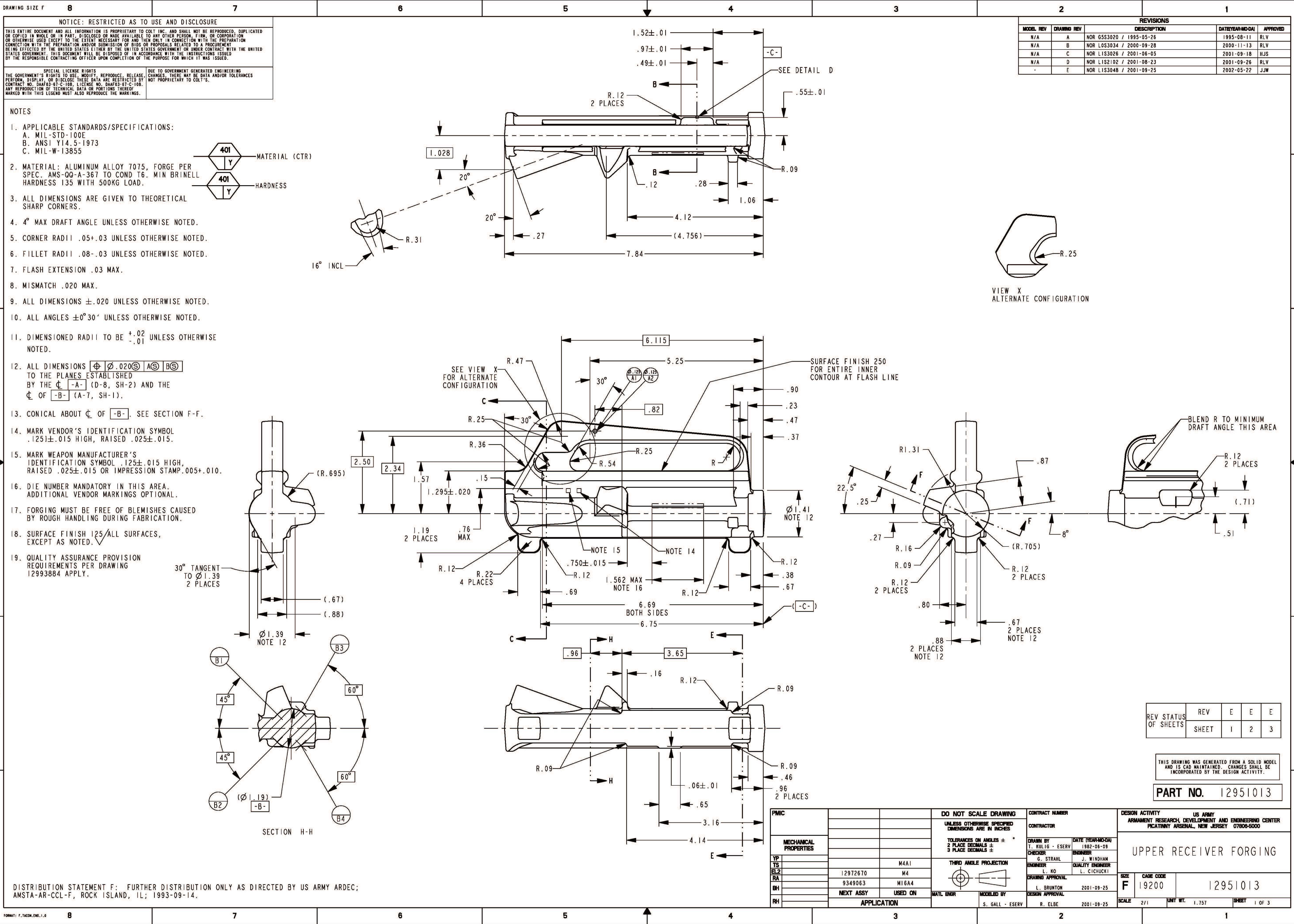




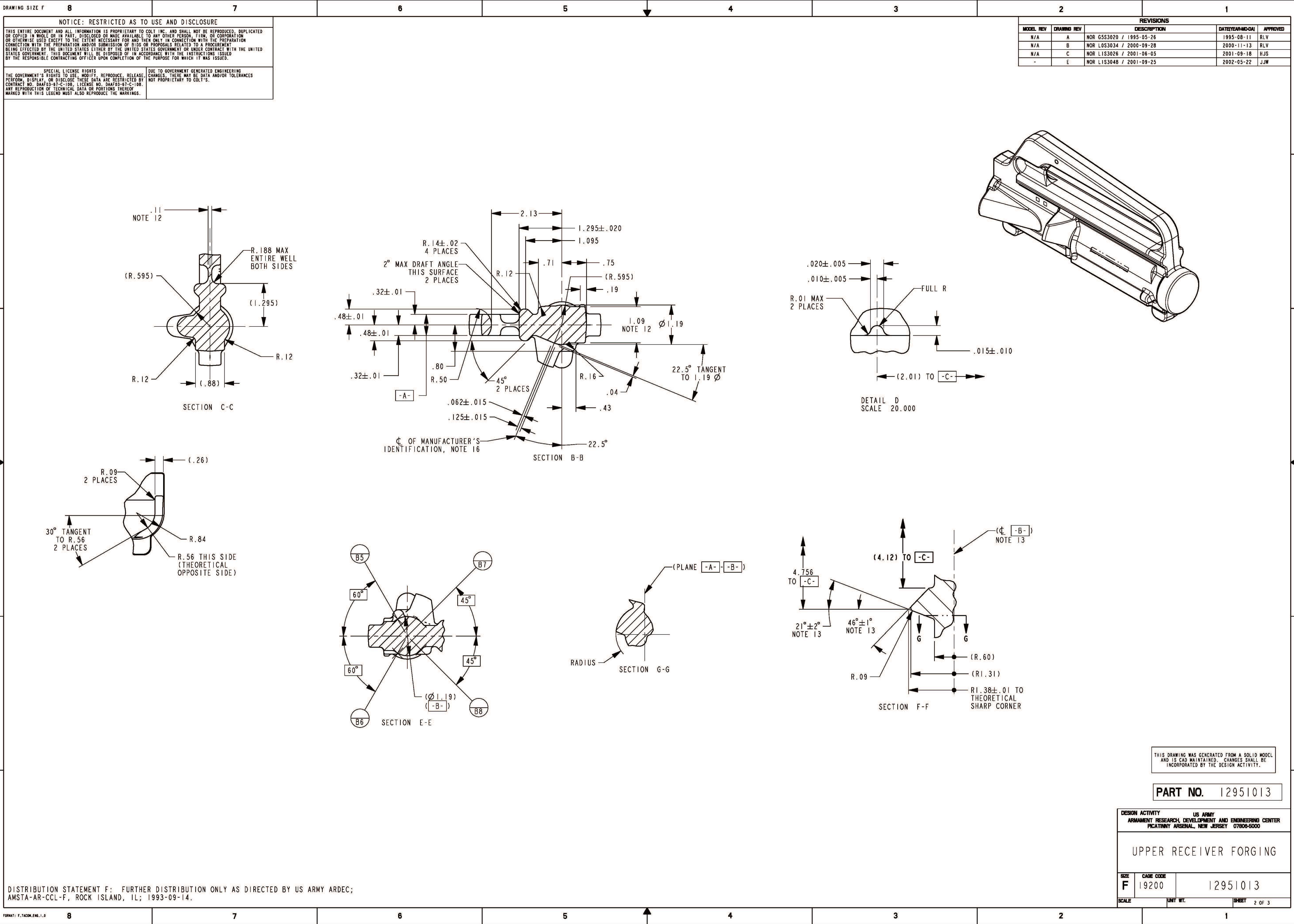














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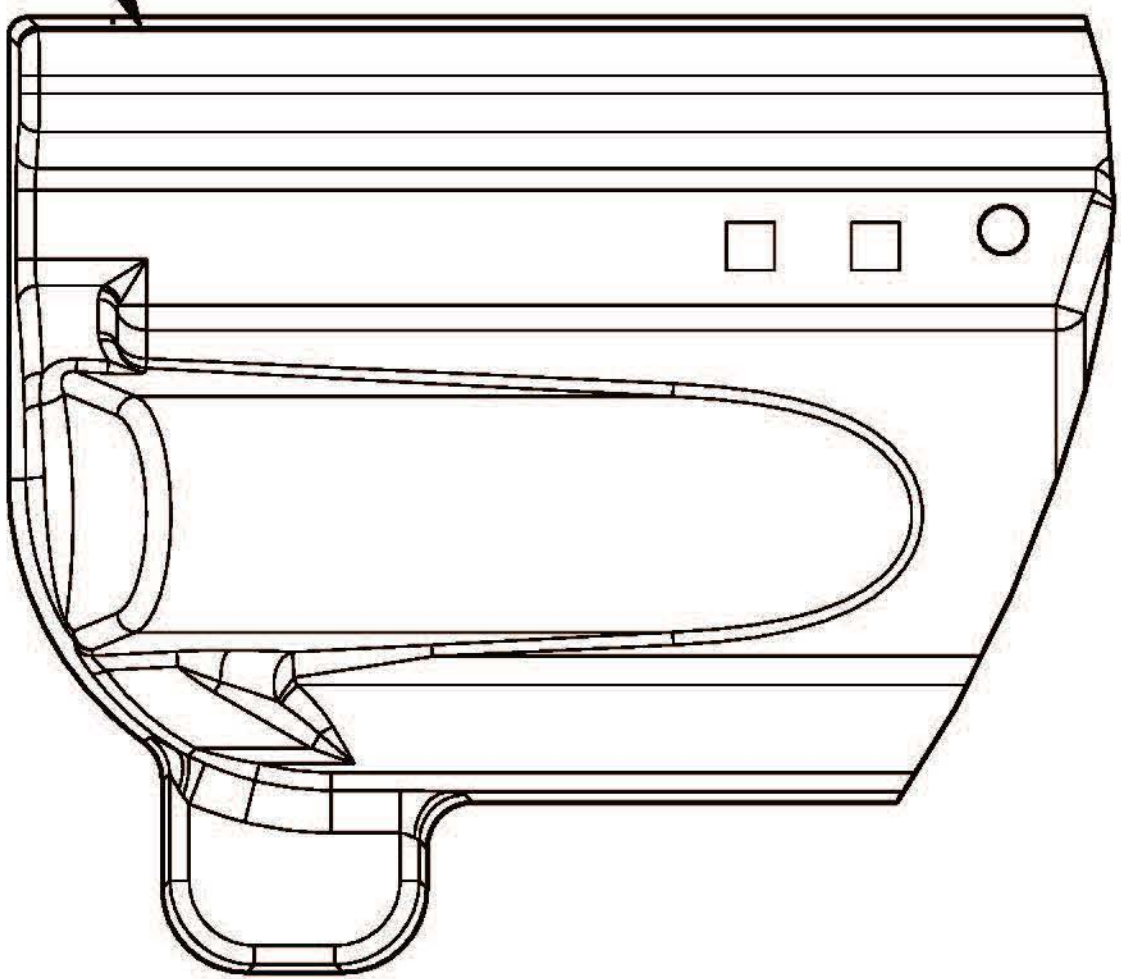
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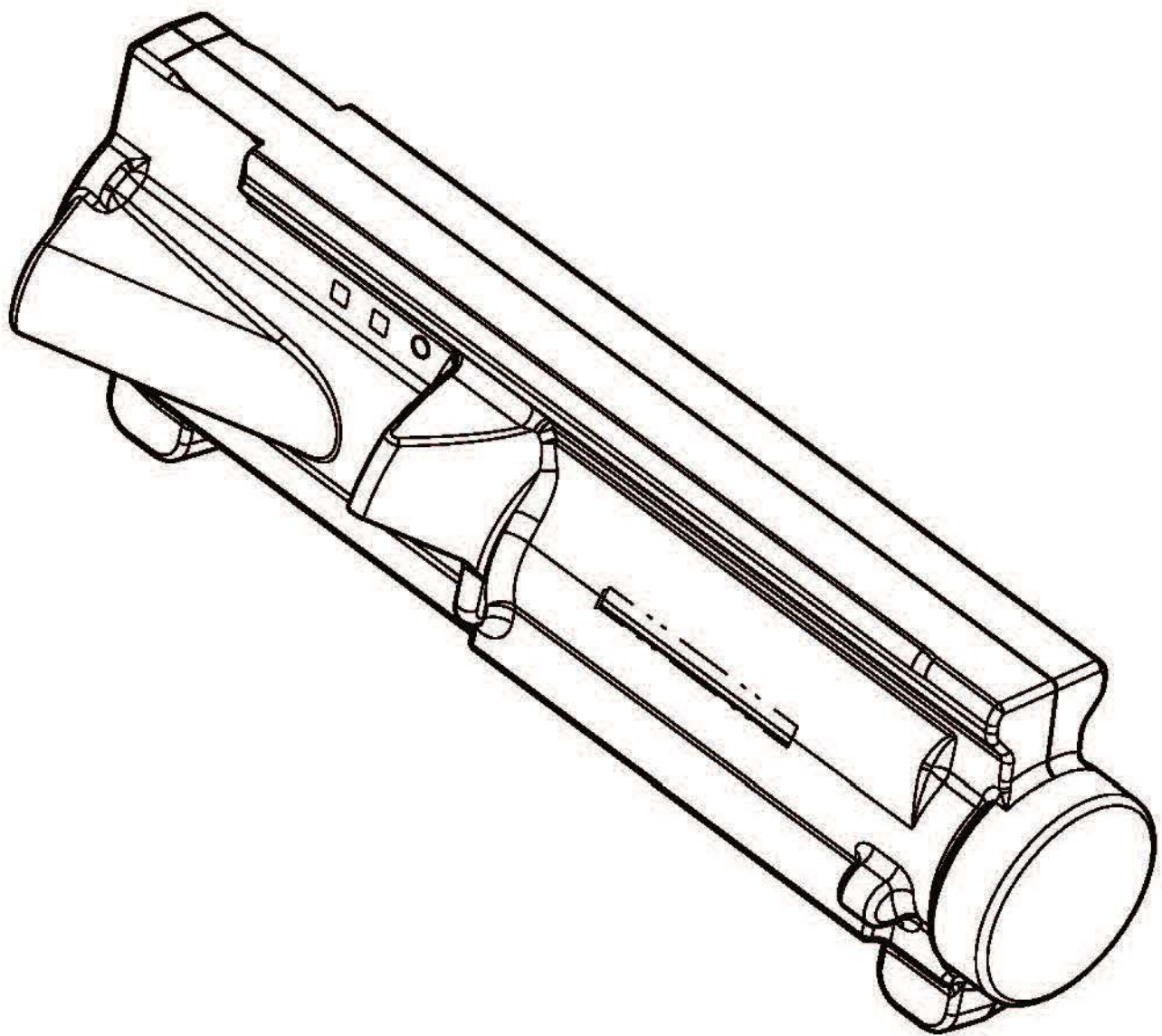
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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE/TEAM/NO	APPROVED
-	E	NOR LIS3048 / 2001-09-25	2002-05-22	JJW

ALTERNATE DESIGN  
FULL LENGTH (.96) RIB

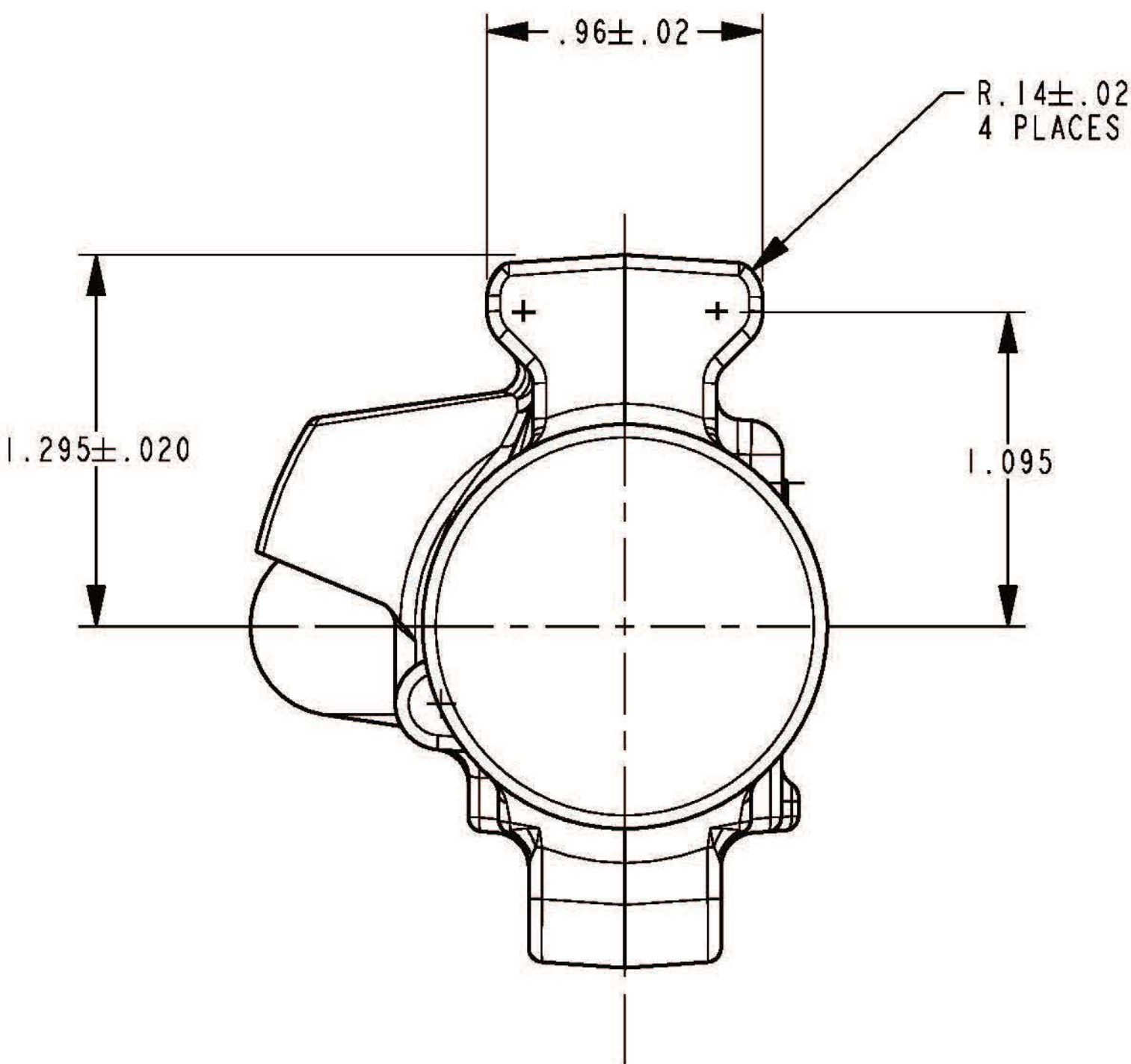
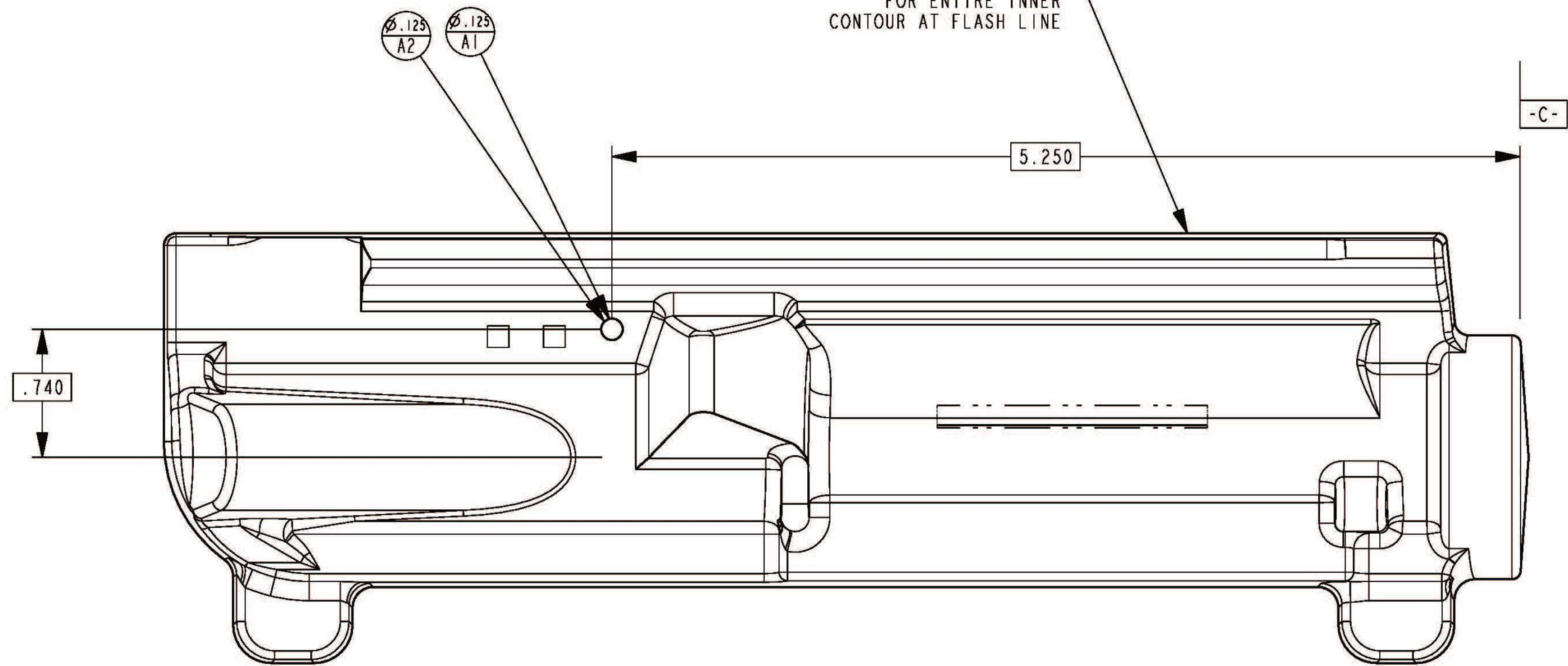


ALTERNATE METHOD OF MANUFACTURE



SCALE 1.000

SURFACE FINISH 250  
FOR ENTIRE INNER  
CONTOUR AT FLASH LINE



ALTERNATE METHOD OF MANUFACTURE

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PART NO. 12951013

DESIGN ACTIVITY US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

UPPER RECEIVER FORGING

SIZE	CAGE CODE	UNIT WT.	SHEET
F	19200	12951013	3 OF 3



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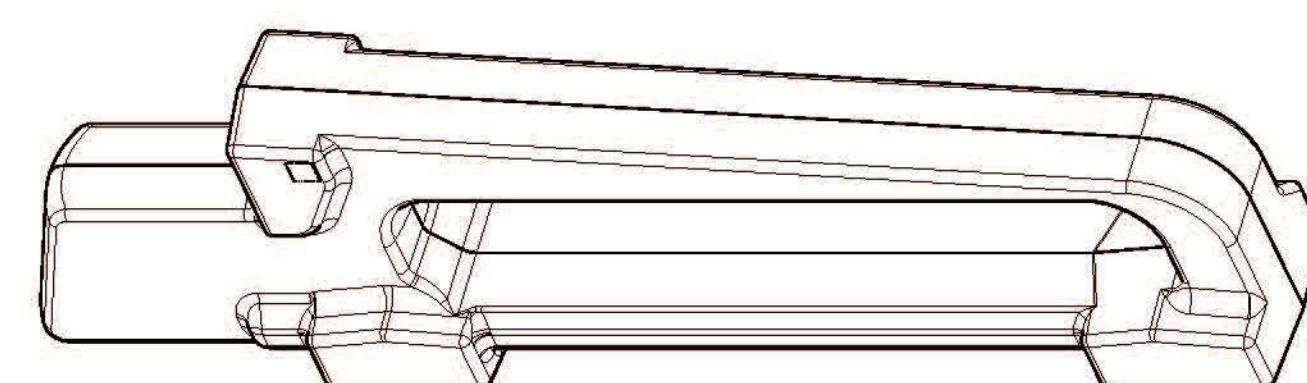
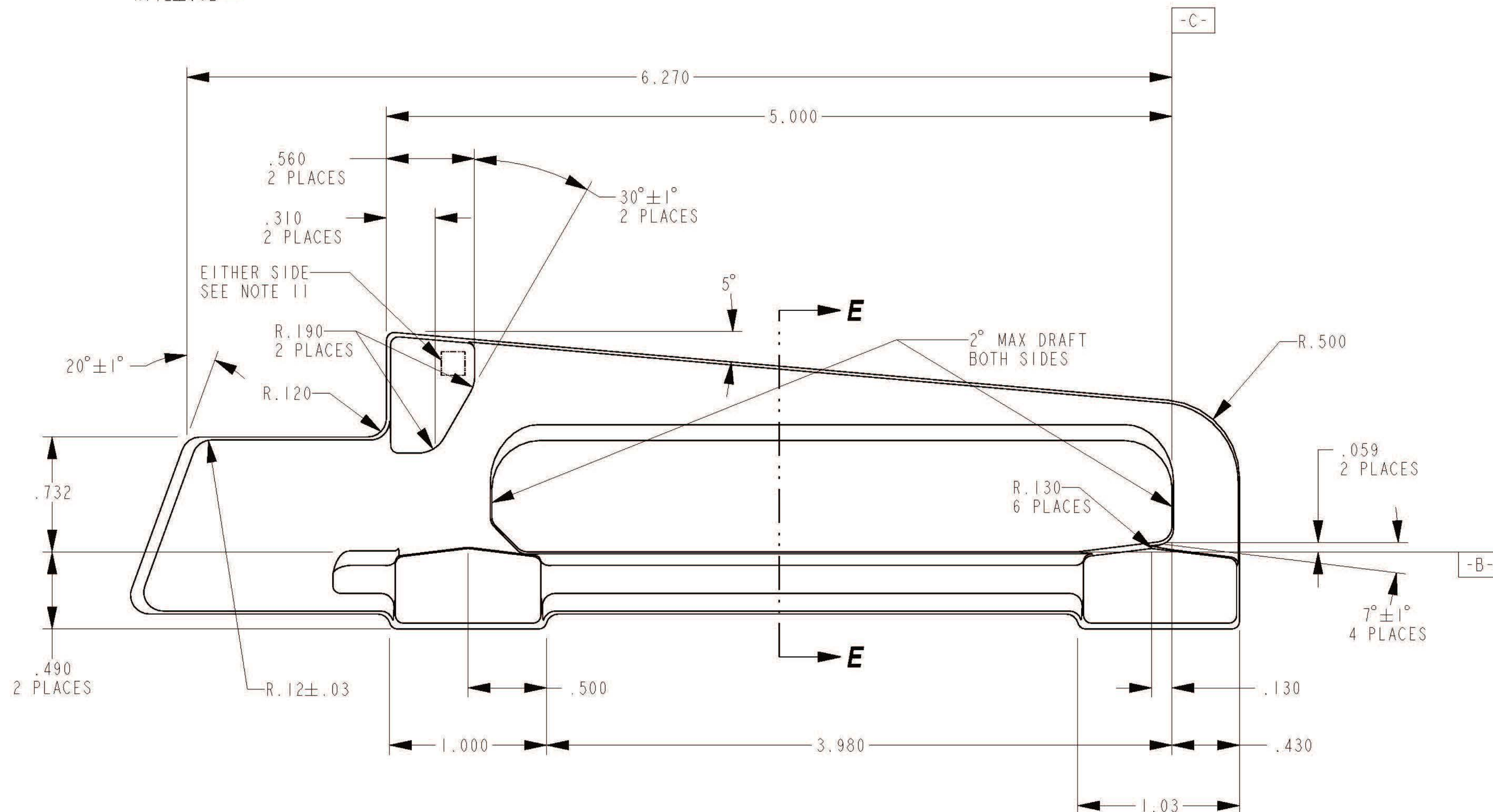
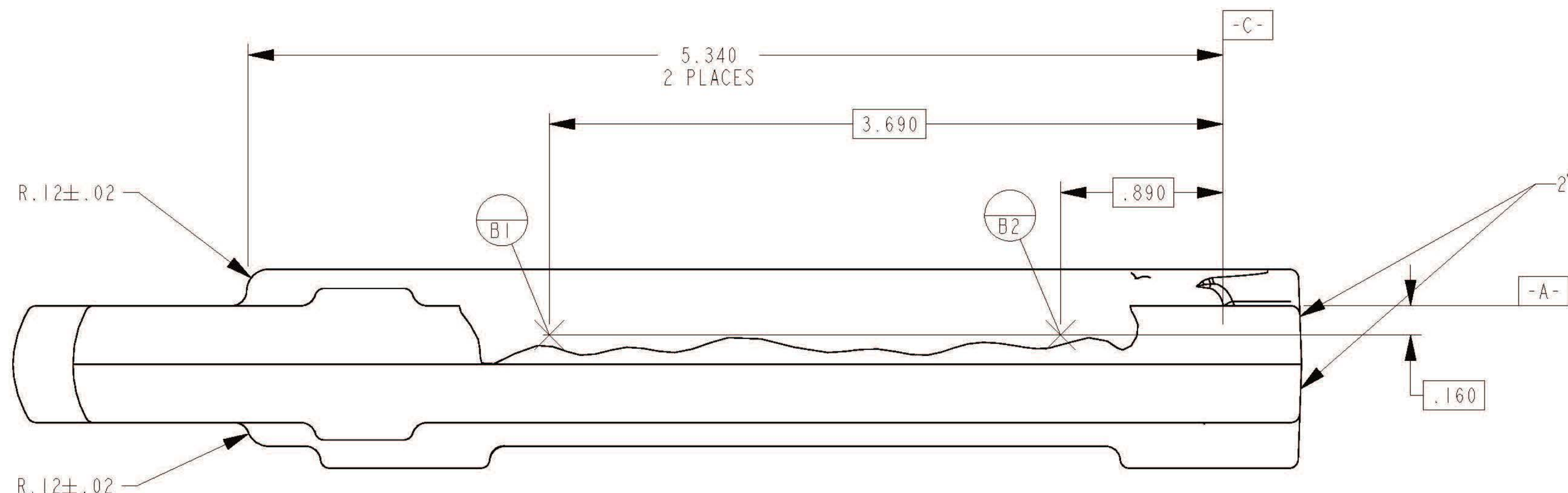
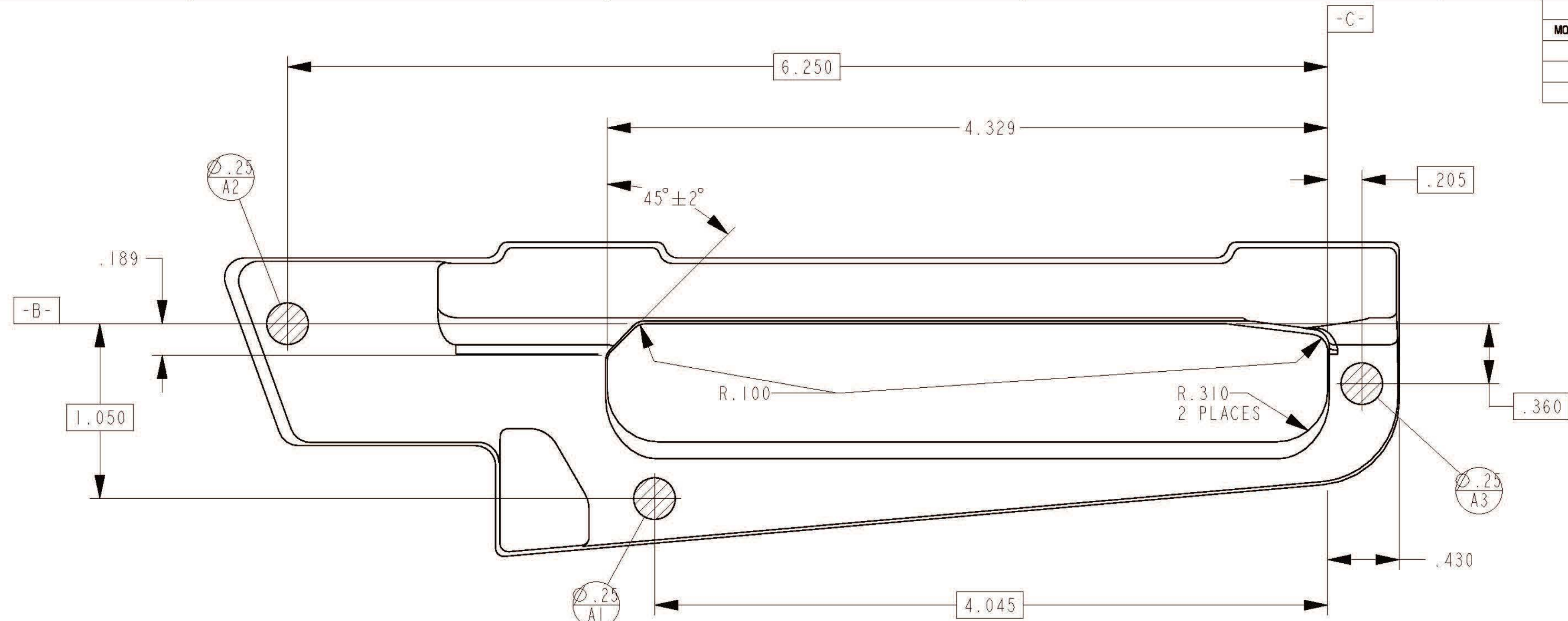
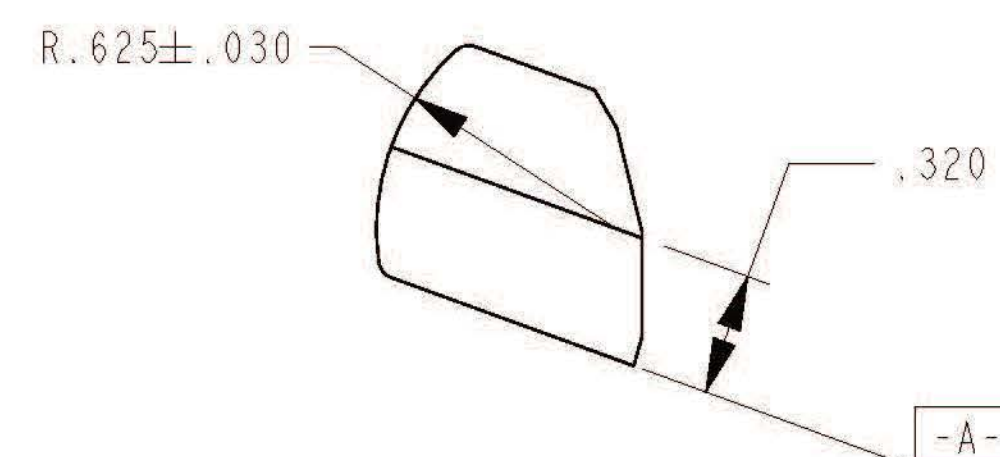
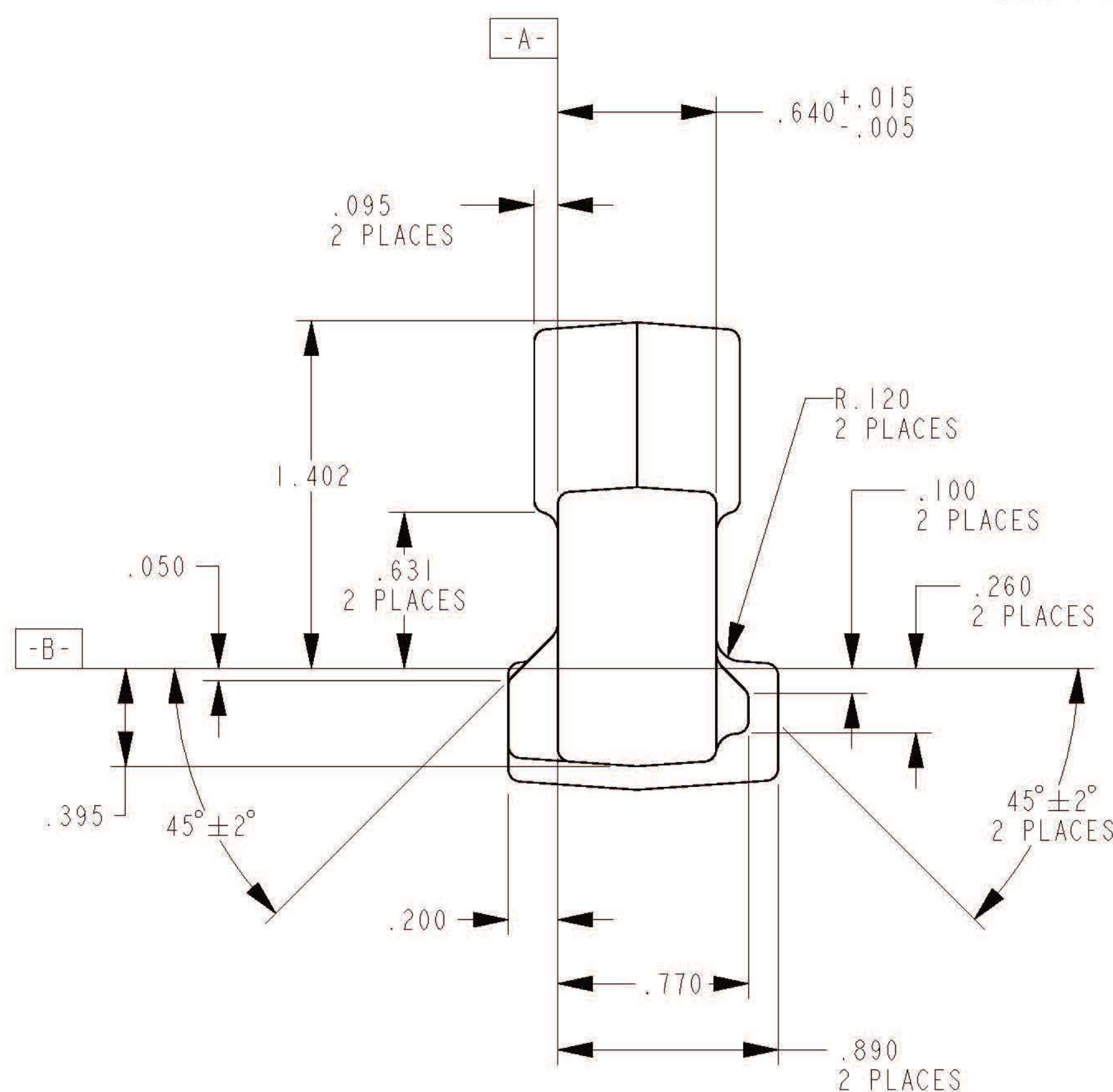
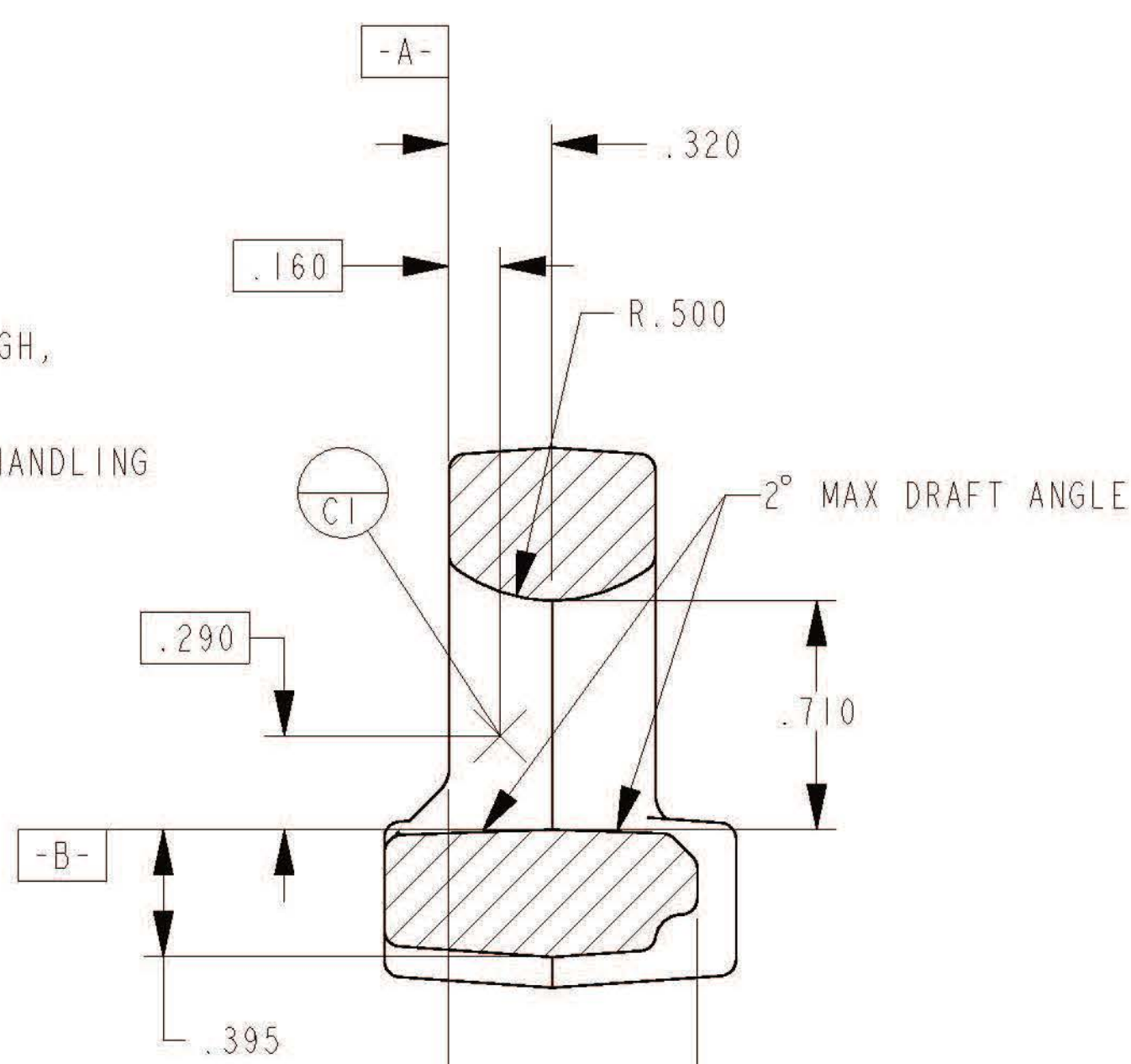
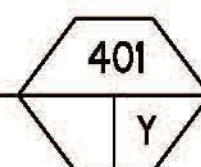
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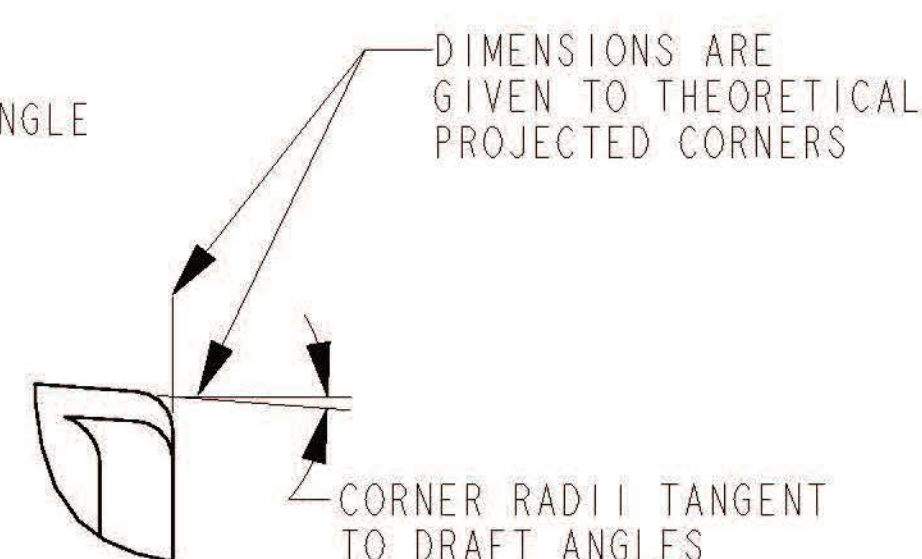
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## NOTES

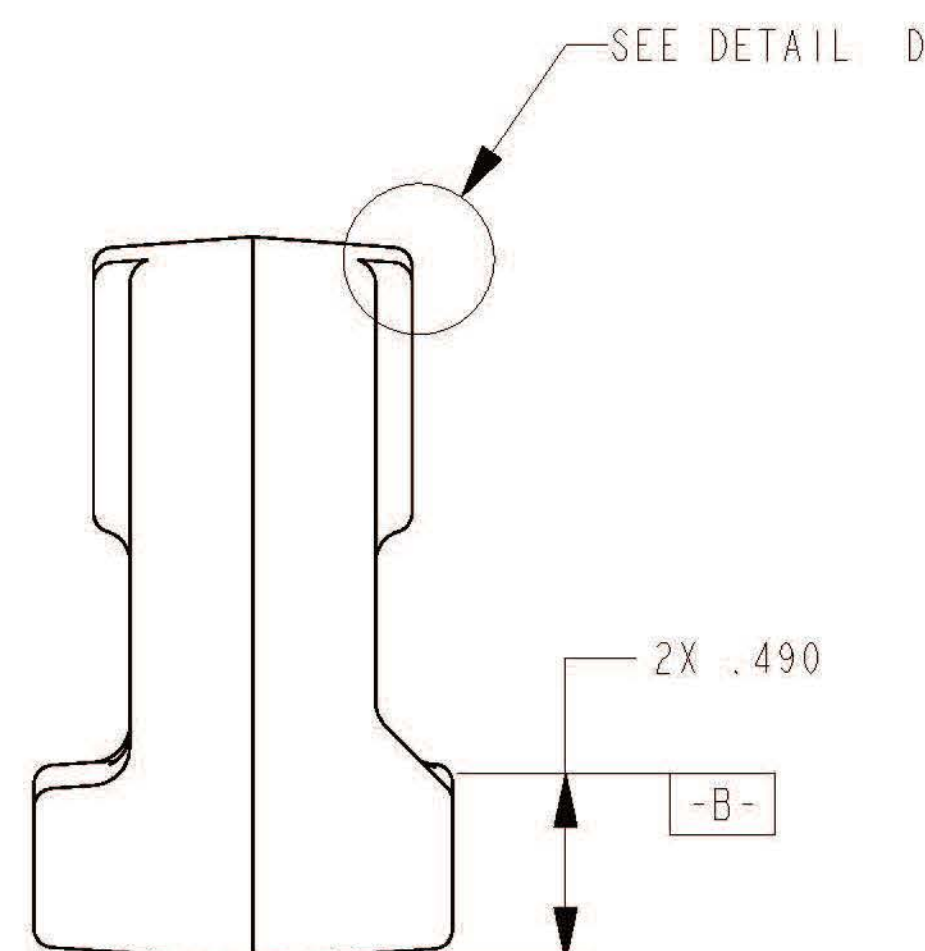
1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100E  
B. ANSI Y14.5-1973  
C. MIL-W-13855
2. MATERIAL: ALUMINUM ALLOY 7075, FORGE PER SPEC QQ-A-367 TO  
COND T6. MIN BRINELL HARDNESS 135 WITH 500 KG LOAD.
3. ALL DIMENSIONS ARE GIVEN TO THEORETICAL SHARP CORNERS, UNLESS  
OTHERWISE SPECIFIED (SEE VIEW D).
4. DRAFT ANGLE 4° MAX UNLESS OTHERWISE SPECIFIED.
5. CORNER RADII .05  $\pm$ .03 UNLESS OTHERWISE SPECIFIED.
6. FILLET RADII .08  $\pm$ .03 UNLESS OTHERWISE SPECIFIED.
7. FLASH EXTENSION .030 MAX.
8. MISMATCH .020 MAX.
9. ALL DIMENSIONS  $\pm$ .015 UNLESS OTHERWISE SPECIFIED.
10. ALL ANGLES  $\pm$ .5° UNLESS OTHERWISE SPECIFIED.
11. MARK VENDOR'S IDENTIFICATION SYMBOL .125  $\pm$ .015 HIGH,  
RAISED .025  $\pm$ .015.
12. FORGING MUST BE FREE OF BLEMISHES CAUSED BY ROUGH HANDLING  
DURING FABRICATION.
13. SURFACE FINISH 125/ $\sqrt$  UNLESS OTHERWISE SPECIFIED.
14. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING 12993884 APPLY.



SCALE 1.000



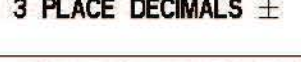
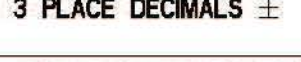
DETAIL D  
SCALE 4  
SEE NOTE 3



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PART NO.	12951015
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REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	B	NOR 64S3076 / 1994-06-20	1994-09-21	RLV
N/A	C	NOR L1S3019 / 2001-04-17	2001-05-16	RLV
-	D	NOR L2S3024 / 2002-05-21	2002-07-30	JJW

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY DATE (YEAR-MO-DA) J. HARKNESS-ESERV 1993-12-01		CARRYING HANDLE FORGING			
YP			M16A4	THIRD ANGLE PROJECTION		CHECKER ENGINEER					
TS			M4			J. MACON-ESERV J. WINDHAM					
EL2			M4A1			ENGINEER QUALITY ENGINEER					
RA		12951016	M4A1			L. KO E. SESE		SIZE	CAGE CODE	DWG NO.	
BH		NEXT ASSY	USED ON			MATL ENGR	MODELED BY	DRAWING APPROVAL L. BRUNTON 2002-05-21		F	19200
RH		APPLICATION				DESIGN APPROVAL R. ELBE 2002-05-21		SCALE	2	UNIT WT. 0.514	SHEET 1 of 1



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NOT PROPRIETARY TO COLT'S.

A. MIL-STD-100  
B. ANSI Y14.5M-1982  
C. MIL-W-13855

13. QUALITY ASSURANCE PROVISION  
REQUIREMENTS PER DRAWING 12993884 APPLY.

 $\text{CH}_3\text{-CO-}$ 

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY

PART NO. | 295 | 0 | 6

BASE, CARRYING  
HANDLE

SIZE <b>F</b>	CAGE CODE 19200	DWG NO. 12951016
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SCALE	2	UNIT WT.	0.253	SHEET	1 OF 1
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D

C

B

A

D

C

B

A

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NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:

A. MIL-STD-100E

B. ANSI Y14.5-1973

C. MIL-W-13855

2. MATERIAL: STEEL, COLD ROLLED CMPSN 1010 THRU 1020, SPEC-ASTM A568.

401

Y

3. DIMENSIONAL LIMITS APPLY BEFORE FINAL PROTECTIVE FINISH.

4. BREAK ALL SHARP EDGES .005+.010 UNLESS OTHERWISE SPECIFIED.

5. FILLET RADIUS .015-.012 UNLESS OTHERWISE SPECIFIED.

6. HEAT TREAT: CARBURIZE .010 TO .015 EFFECTIVE CASE DEPTH, SURFACE HARDNESS 10 ROCKWELL 15N 84.51 TO 87.5.

7. SURFACE FINISH 125/ALL OVER.

404

Y

8. PROTECTIVE FINISH: 5.3.1.2 OF MIL-STD-171.

9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

APPLY PRIME CONTRACTOR'S CAGE CODE THIS AREA, .062 ±.010 HIGH CHARACTER X .015 MAX DEPTH, IN APPROX. POSITION SHOWN. CHARACTER SHALL BE LEGIBLE.

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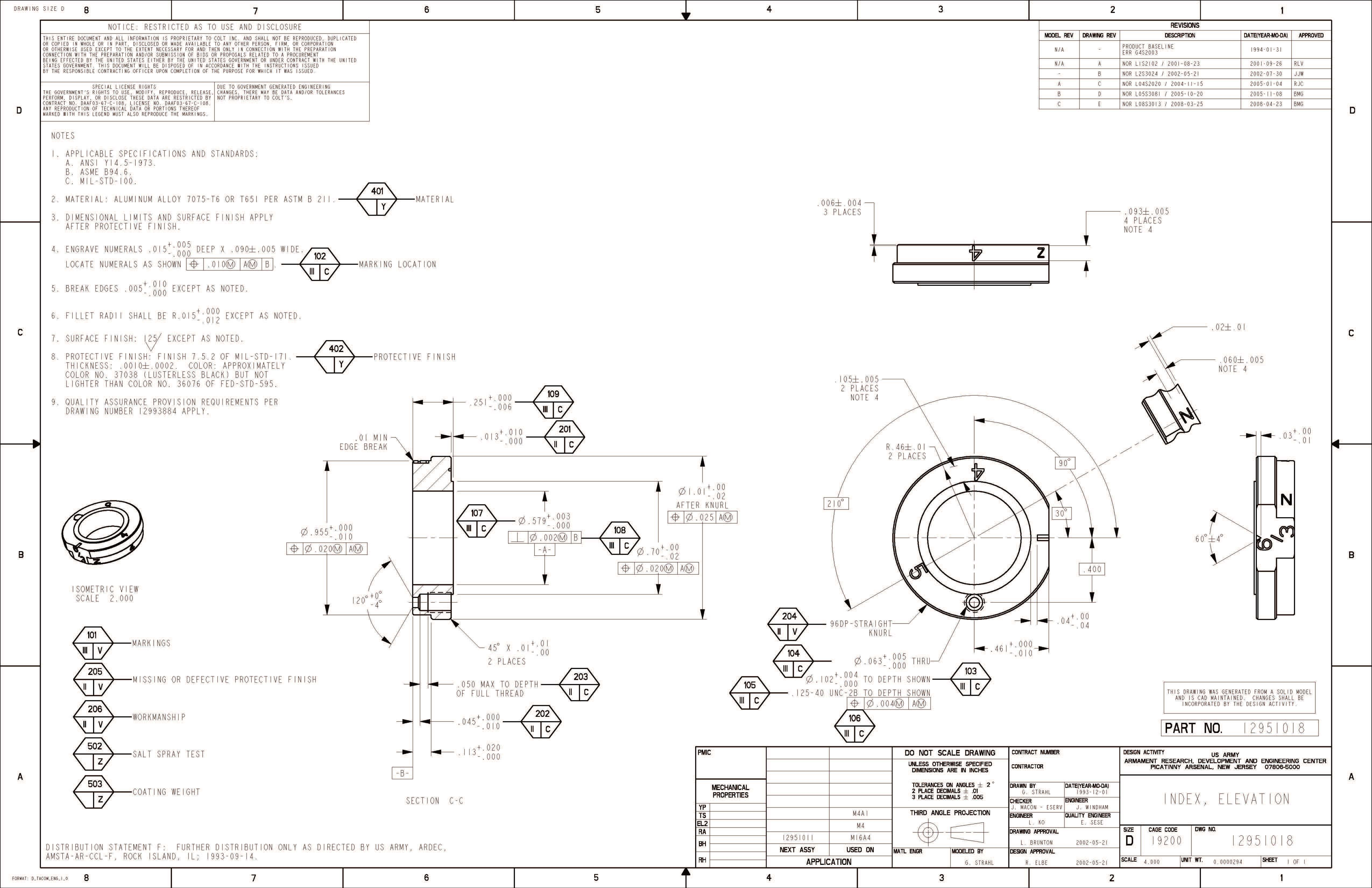
PART NO. 12951017

PMIC			DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±  THIRD ANGLE PROJECTION	CONTRACT NUMBER		DESIGN ACTIVITY			
				CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
				DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1993-12-01	CLAMP			
				CHECKER J. MACON-ESERV	ENGINEER J. WINDHAM				
YP				ENGINEER L. KO	QUALITY ENGINEER E. SESE	SIZE D	CAGE CODE 19200		
TS		M16A4		DRAWING APPROVAL L. BRUNTON 2002-05-21		DWG NO. 12951017			
EL2		M4		DESIGN APPROVAL R. ELBE 2002-05-21		SCALE 2	UNIT WT. 0.067		
RA	12951021	M4A1				SHEET 1 OF 1			
BH	NEXT ASSY		USED ON						
RH	APPLICATION								

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY, ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

FORMAT: D\_TACON\_ENG\_1.0











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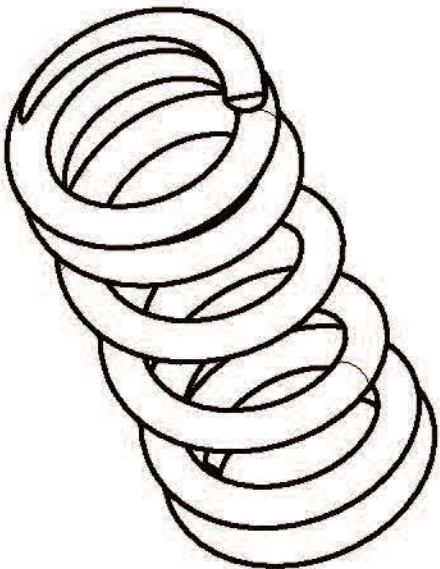
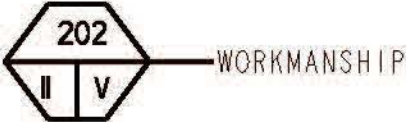
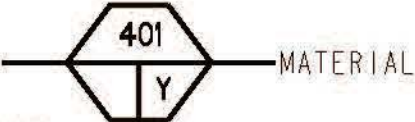
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DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:  
A. MIL-W-13855  
B. MIL-STD-100  
C. ANSI Y14.5-1973
2. MATERIAL: MUSIC WIRE PER ASTM A 228.
3. SPRING REQUIREMENTS APPLY AFTER COMPRESSING TO SOLID HEIGHT 3 TIMES.
4. BREAK EDGES .003<sup>+0.012</sup><sub>-.000</sub> EXCEPT AS NOTED.
5. SURFACE FINISH: 125/ EXCEPT AS NOTED.
6. MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B PER ASI3572, EXCEPT THAT PARAGRAPH 4.4.4.1 SHALL NOT APPLY.
7. STRESS RELIEF: HOLD AT APPROXIMATELY 450° F FOR APPROXIMATELY 30 MINUTES AFTER FORMING.
8. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW

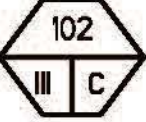
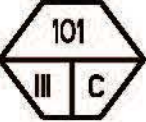
DISTRIBUTION STATEMENT F. FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY, ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
	-	PRODUCT BASELINE ERR G4S2003	1994-01-31	
N/A	A	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	B	NOR L2S3024 / 2002-05-21	2002-07-30	JJW
A	C	NOR L3S3161 / 2004-03-21	2004-08-13	RLV
B	D	NOR L08S3013 / 2008-03-25	2008-04-23	BMG

SPRING DATA

WIRE DIAMETER	Ø.0180±.0003
OUTSIDE DIAMETER	Ø.120±.005
TOTAL NO. OF COILS	7 REF
TOTAL NO. OF ACTIVE COILS	5 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .174	2.14±0.21 LB
LOAD AT COMPRESSED LENGTH OF .154	2.70±0.27 LB
SPRING RATE	28.4 LB/IN REF
SOLID HEIGHT	.126 MAX
TYPE OF ENDS	CLOSED AND GROUND
FREE LENGTH	.250 REF

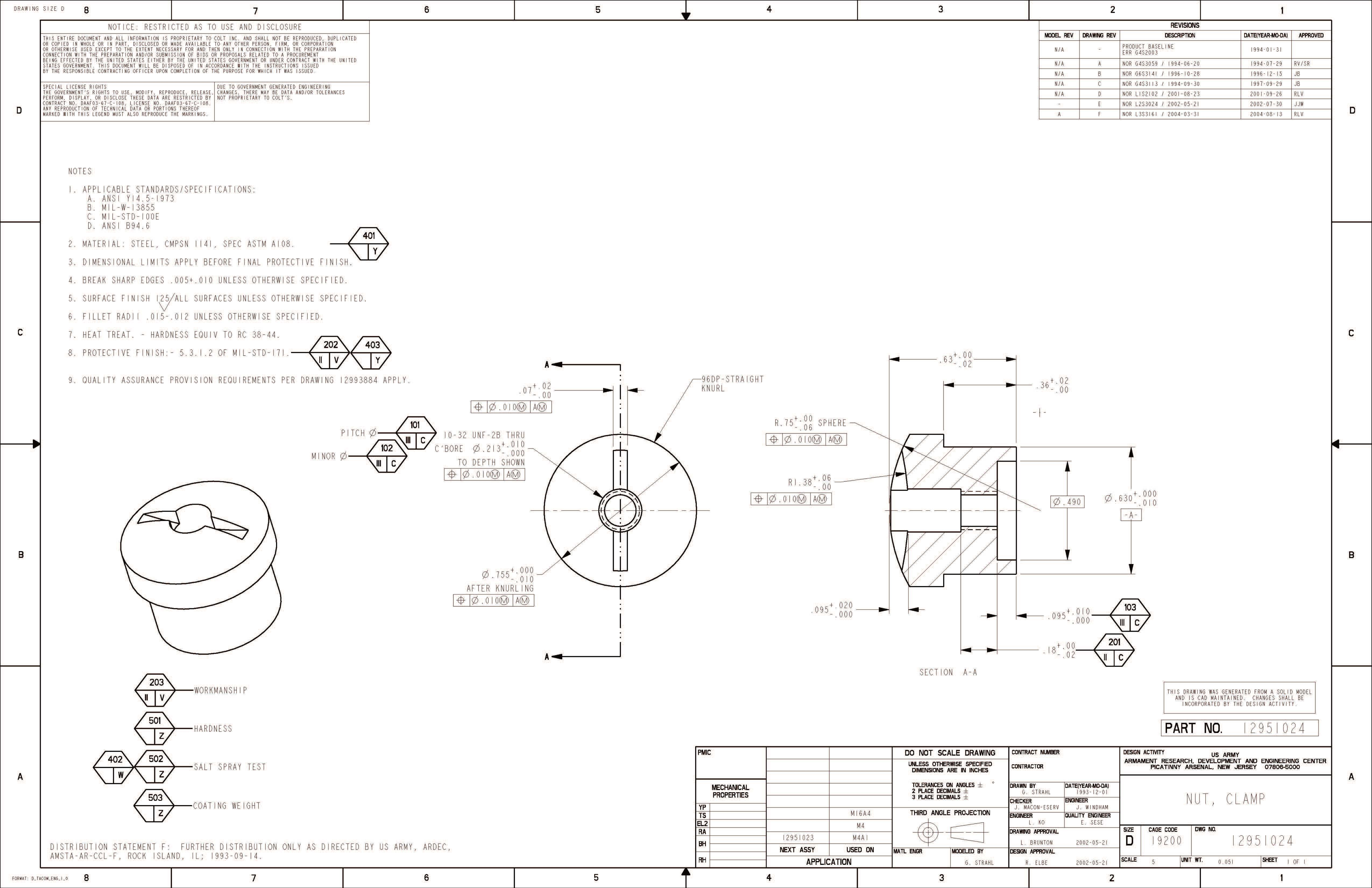


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PART NO. 12951020

PMIC			DO NOT SCALE DRAWING	CONTRACT NUMBER	DESIGN ACTIVITY
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
MECHANICAL PROPERTIES			TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	DRAWN BY G. STRAHL	DATE(YEAR-MO-DA) 1993-12-01
YP			THIRD ANGLE PROJECTION	CHECKER J. MACON - ESERV	ENGINEER J. WINDHAM
TS		M16A4		ENGINEER L. KO	QUALITY ENGINEER E. SESE
EL2		M4		DRAWING APPROVAL L. BRUNTON	2002-05-21
RA	12951011	M4A1		DESIGN APPROVAL R. ELBE	2002-05-21
BH	NEXT ASSY	USED ON	MATL ENGR	MODELED BY G. STRAHL	
RH	APPLICATION				
				SIZE C	CAGE CODE 19200
				SCALE 12.000	DWG NO. 12951020
				UNIT WT. 0.000149	SHEET 1 OF 1







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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR 64S2003	1994-01-31	
N/A	A	ECP 64S3058 / 1994-06-20 (NOR 64S3080 / 1994-07-06)	1994-08-05	RV
-	B	NOR L2S3024 / 2002-05-21	2002-07-30	JJW
A	C	NOR L08S3013 / 2008-03-25	2008-04-23	BMG

NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:  
A. ANSI Y14.5-1973  
B. MIL-W-13855  
C. MIL-STD-100

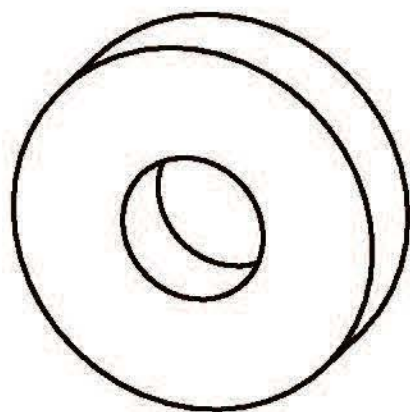
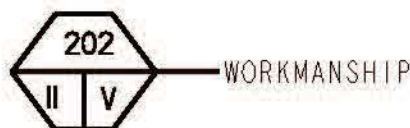
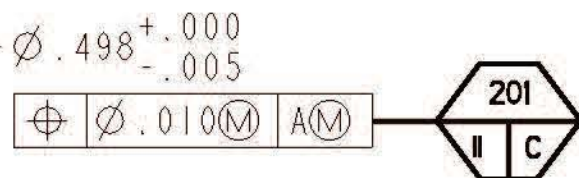
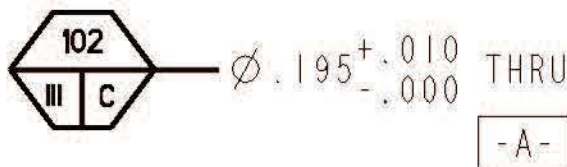
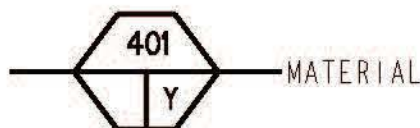
2. MATERIAL: NYLON, UNFILLED, WEATHER RESISTANT, WEAR RESISTANT PER L-P-410. COLOR: BLACK.

3. BREAK EDGES  $.005^{+.010}_{-.000}$  EXCEPT AS NOTED.

4. FILLET RADII SHALL BE  $R.015^{+.000}_{-.012}$  EXCEPT AS NOTED.

5. SURFACE FINISH: 125/ EXCEPT AS NOTED.

6. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW

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PART NO. 12951025

PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR					
MECHANICAL PROPERTIES			TOLERANCE ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY G. STRAHL		DATE(YEAR-MO-DA) 1993-12-01			
YP			THIRD ANGLE PROJECTION		CHECKER J. MACON - ESERV		ENGINEER J. WINDHAM			
TS		M4A1			ENGINEER L. KO		QUALITY ENGINEER E. SESE			
EL2		M4			DRAWING APPROVAL L. BRUNTON 2002-05-21		SIZE C		CAGE CODE 19200	
RA	12951023	M16A4			DESIGN APPROVAL R. ELBE 2002-05-21		DWG NO. 12951025			
BH	NEXT ASSY	USED ON					SCALE 4.000		UNIT WT. 0.00114	
RH	APPLICATION						SHEET 1 OF 1			

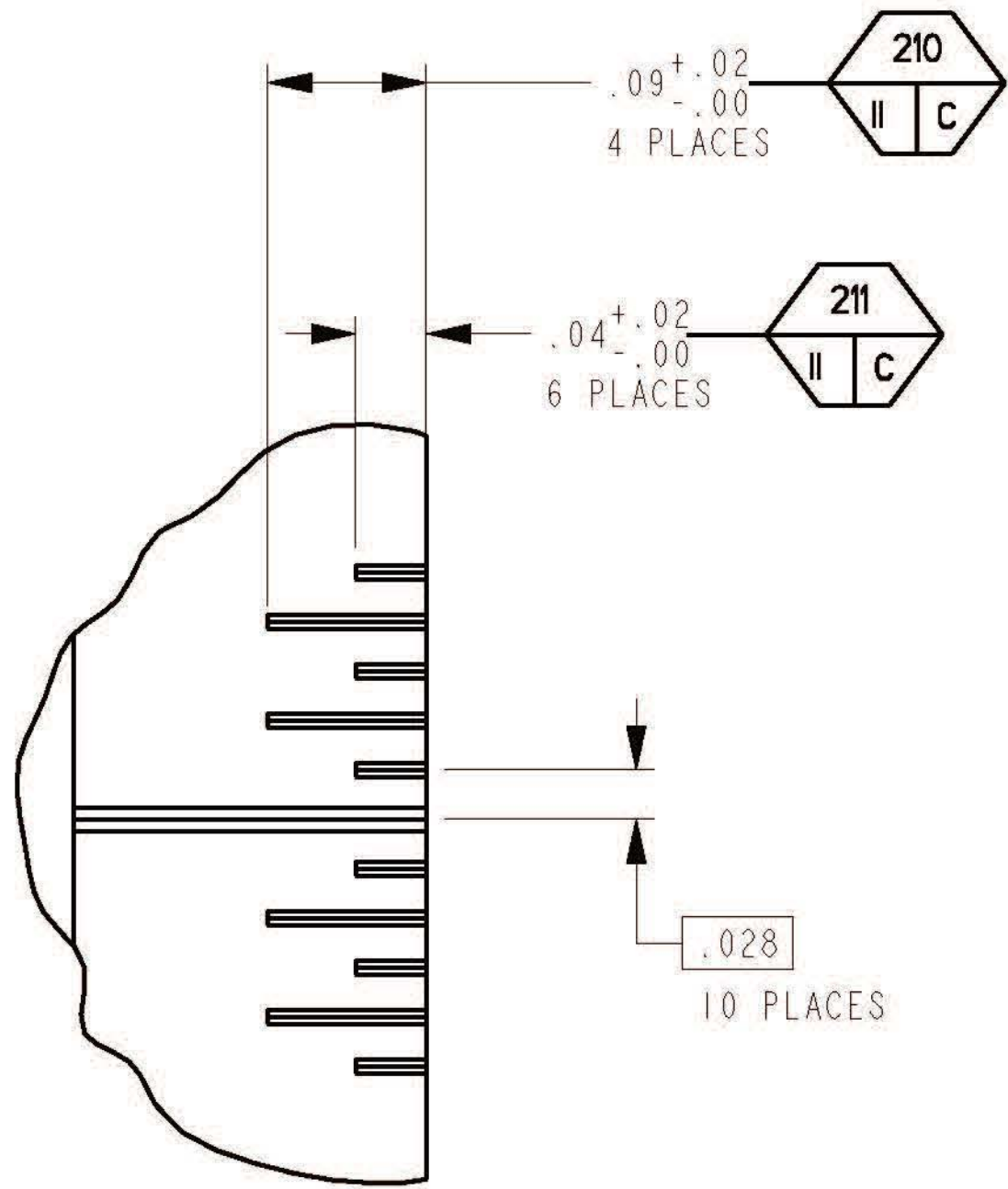
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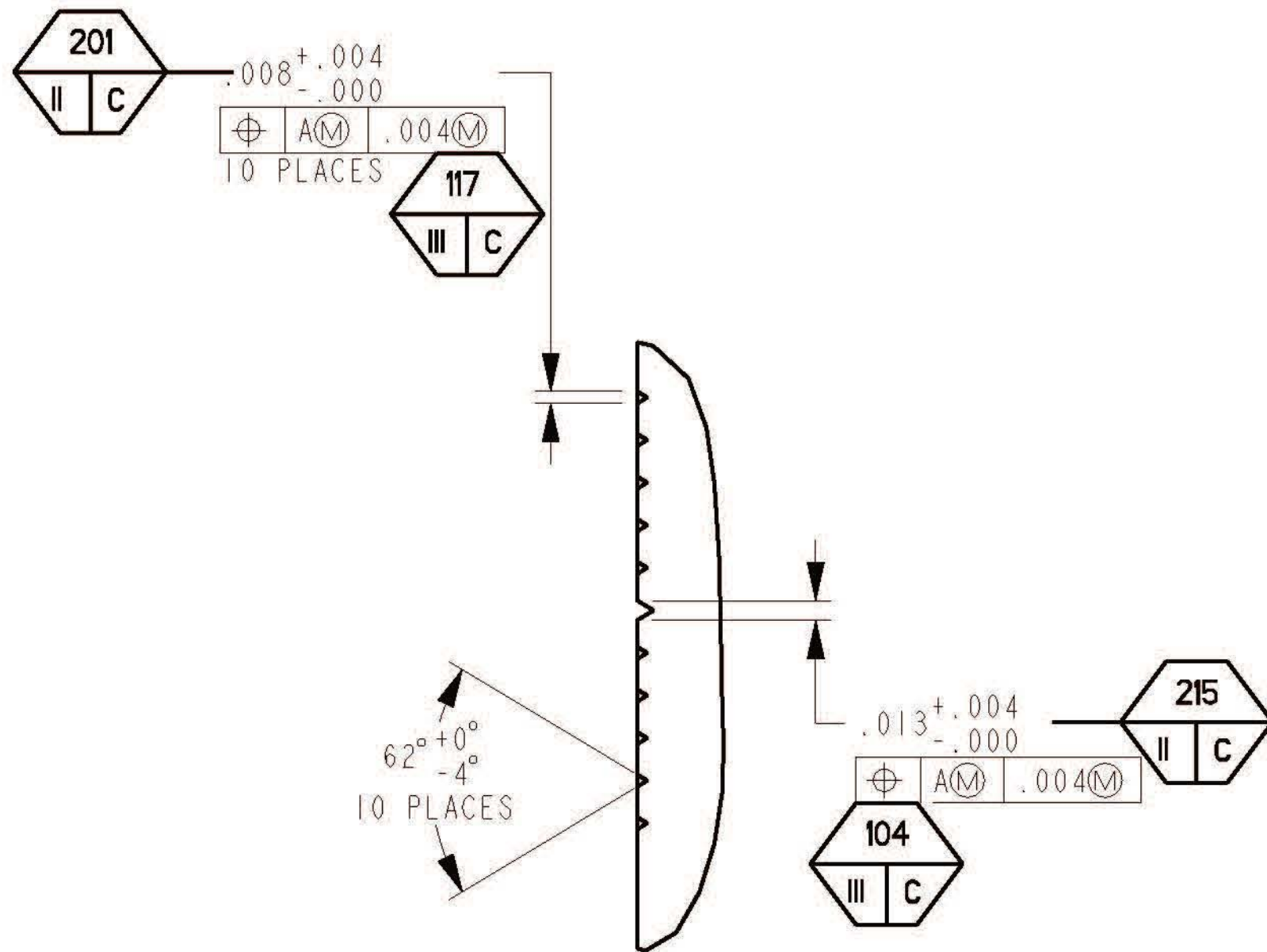




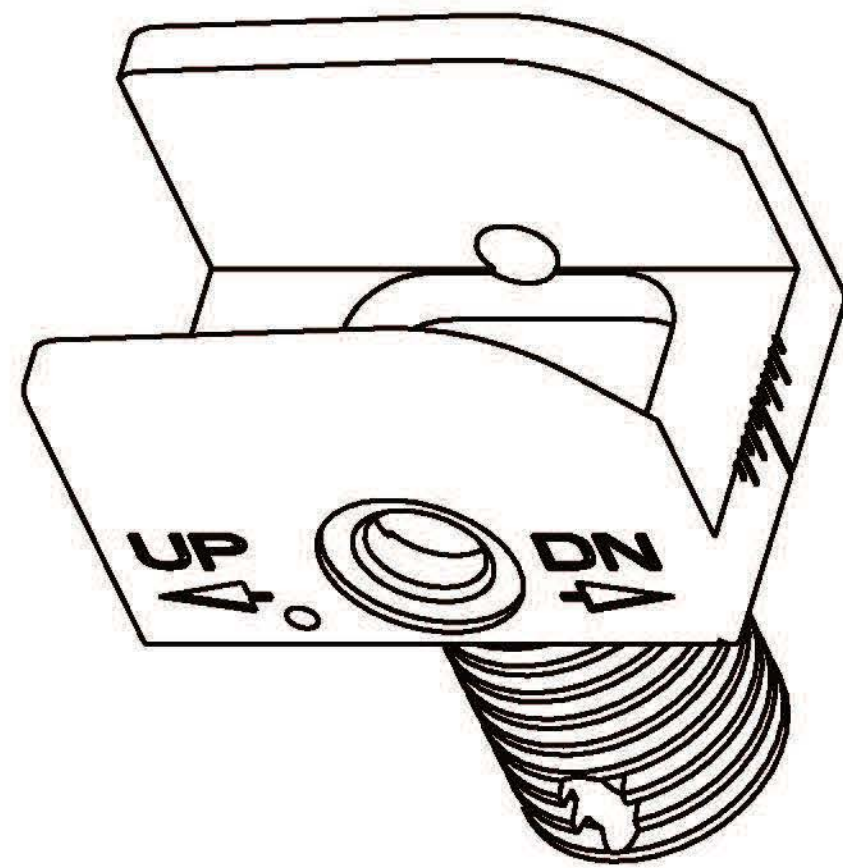
REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
A	B	NOR L3S3161 / 2004-03-31	2004-08-13	RLV
B	C	NOR L07S5182 / 2007-06-13	2007-06-28	BMG
C	D	NOR L08S3013 / 2008-03-25	2008-04-23	BMG



(PARTIAL PROJECTION VIEW)



DETAIL G  
SCALE 10.000



ISOMETRIC VIEW

- 114 III V MISSING OR INCORRECT LETTERS AND ARROWS
- 219 II V MISSING OR DEFECTIVE PROTECTIVE FINISH
- 220 II V WORKMANSHIP
- 501 Z HARDNESS
- 502 Z SALT SPRAY TEST
- 503 Z COATING WEIGHT
- 504 Z SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST
- 505 Z CASE DEPTH

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
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PART NO. 12951028

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		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
MECHANICAL PROPERTIES		TOLERANCES ON ANGLES $\pm 2^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY B. NICEWANNER		DATE(YEAR-MO-DA) 1993-12-01	
YP		THIRD ANGLE PROJECTION		CHECKER J. MACON - ESERV		ENGINEER J. WINDHAM	
TS				ENGINEER L. KO		QUALITY ENGINEER E. SESE	
EL2				DRAWING APPROVAL L. BRUNTON		2002-05-21	
RA		12951026		DESIGN APPROVAL R. ELBE		2002-05-21	
BH		NEXT ASSY		SCALE		3.000	
RH		USED ON		UNIT WT.		0.0942	
		APPLICATION		SHEET		2 OF 2	
				CAGE CODE		19200	
				DWG NO.		12951028	



D

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C

NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:

A. MIL-STD-100E

B. ANSI Y14.5-1973

C. MIL-W-13855

2. MATERIAL: STEEL, CMPSN 4137, 4140, 4142 PER SPEC ASTM A322.

3. DIMENSIONAL LIMITS AND SURFACE TEXTURE APPLY AFTER PLATING.

4. HEAT TREAT: HARDNESS EQUIV TO Rc 28-32.

5. BREAK SHARP EDGES .005+.010 UNLESS OTHERWISE SPECIFIED.

6. FILLET RADIUS .015-.012 UNLESS OTHERWISE SPECIFIED.

7. SURFACE FINISH 125/ALL UNLESS OTHERWISE SPECIFIED.

8. FINAL PROTECTIVE FINISH: 5.3.1.2 OF MIL-STD-171.

9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

B

203

II

V

WORKMANSHIP

403

Y

501

Z

HARDNESS

502

Z

SALT SPRAY TEST

503

Z

COATING WEIGHT

90°±2°

30 PLACES

A

DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY, ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR G4S2003	1994-01-31	
N/A	A	NOR G4S3114 / 1997-09-30	1997-09-20	JB
-	B	NOR L2S3024 / (2002-05-21)	2002-07-30	JJW
A	C	NOR L3S3161 / 2004-03-31	2004-08-13	RLV

D

C

B

A

R.155<sup>+.000</sup><sub>-.010</sub>

⊕

⊙

⌀.010

M

B

M

1.49<sup>+.00</sup><sub>-.02</sub>

201

II

C

.47<sup>+.08</sup><sub>-.00</sub>

103

III

C

⌀.253<sup>+.000</sup><sub>-.006</sub>

⊕

⊙

⌀.006

M

A

M

.115<sup>+.000</sup><sub>-.010</sub>

-B-

⌀.189<sup>+.000</sup><sub>-.005</sub>

-A-

PITCH ⌀

101

III

C

10-32 UNF-2A

MAJOR ⌀

102

III

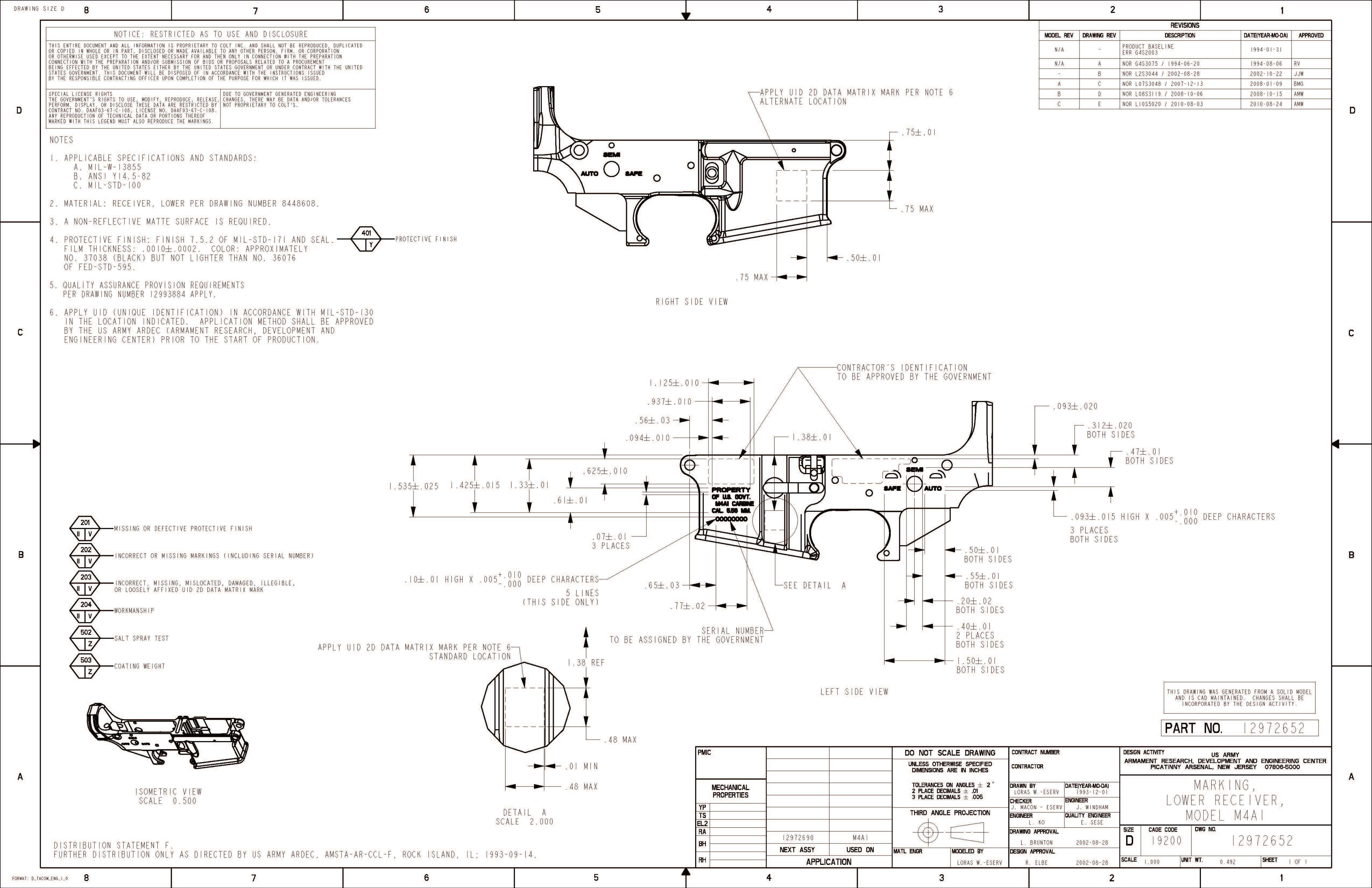
C

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PART NO. 12951029

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY B NICEWANNER 1993-12-01		STUD, CLAMP			
YP				THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV					
TS		M16A4				ENGINEER J. WINDHAM					
EL2		M4				ENGINEER L. KO		QUALITY ENGINEER E. SESE			
RA		12951021				DRAWING APPROVAL L. BRUNTON 2002-05-21		SIZE D			
BH		NEXT ASSY		USED ON		DESIGN APPROVAL R. ELBE 2002-05-21		CAGE CODE 19200			
RH		APPLICATION						DWG NO. 12951029			
								SCALE 1:0			
								UNIT WT. 0.014			
								SHEET 1 OF 1			

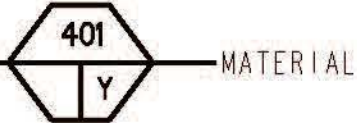






NOTES

- 1. MIL-W-13855 APPLIES.
- 2. MATERIAL: TUNGSTEN, CLASS 3 PER ASTM B 777.
- 3. SURFACE FINISH: 125 EXCEPT AS NOTED.
- 4. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



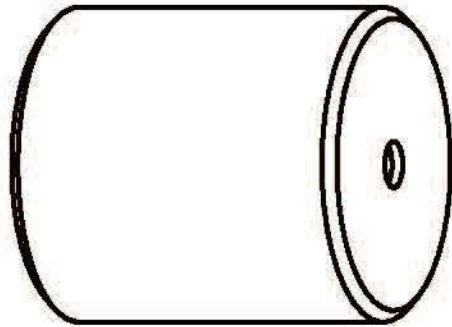
MATERIAL

45° X .02  
BOTH ENDS

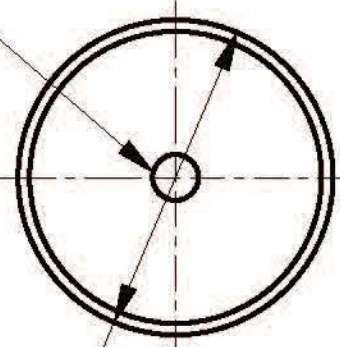
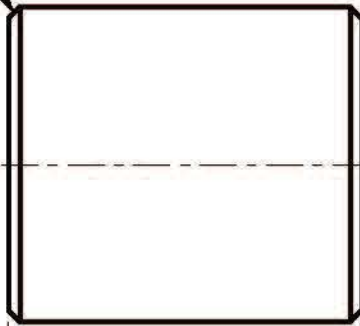
Ø .08 X .02 DEEP  
BOTH ENDS  
OPTIONAL  
(FOR IDENTIFICATION)



WORKMANSHIP



ISOMETRIC VIEW

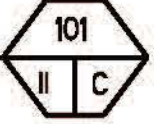


	.010
	.010

.613±.010



Ø .547<sup>+.000</sup><sub>-.015</sub>



-B-

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PART NO. 12972656

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				UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY	
MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY G. STRAHL		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	
YP				THIRD ANGLE PROJECTION		DATE (YEAR-MO-DA) 1997-02-09		PICATINNY ARSENAL, NEW JERSEY 07806-5000	
TS						CHECKER J. WINDHAM		WEIGHT, BUFFER, TUNGSTEN	
EL2						ENGINEER L. KO			
RA						QUALITY ENGINEER E. SESE			
BH		13004468	M4A1			DRAWING APPROVAL L. BRUNTON 2002-03-15		SIZE B	
RH		9390023	M4			DESIGN APPROVAL R. ELBE 2002-03-15		CAGE CODE 19200	
		NEXT ASSY	USED ON	MATL ENGR		MODELED BY G. STRAHL		DWG NO. 12972656	
		APPLICATION						SCALE 3.000	
								UNIT WT 0.0994	
								SHEET 1 OF 1	



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CHANGES, THERE MAY BE DATA AND/OR TOLERANCES  
NOT PROPRIETARY TO COLT'S



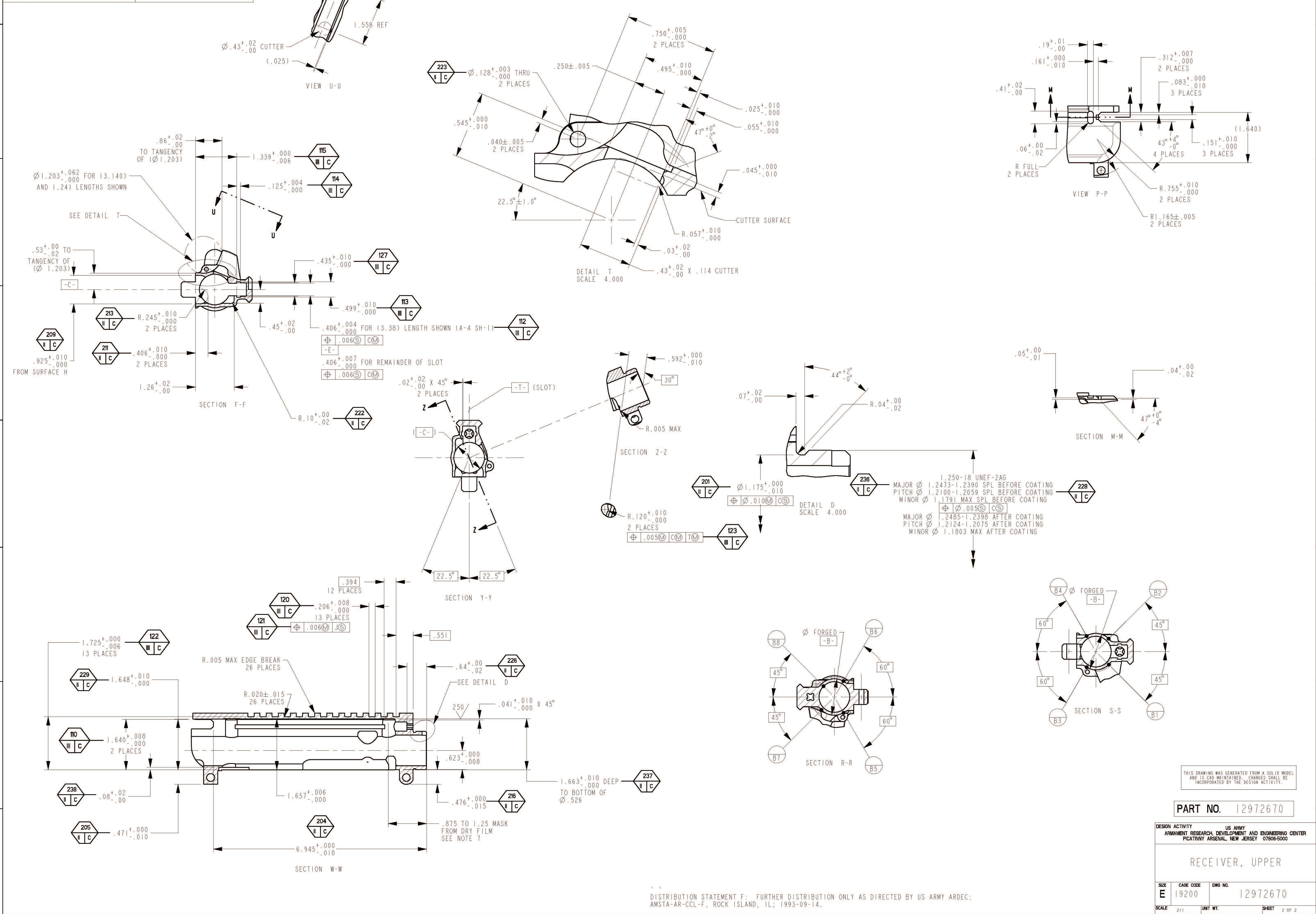
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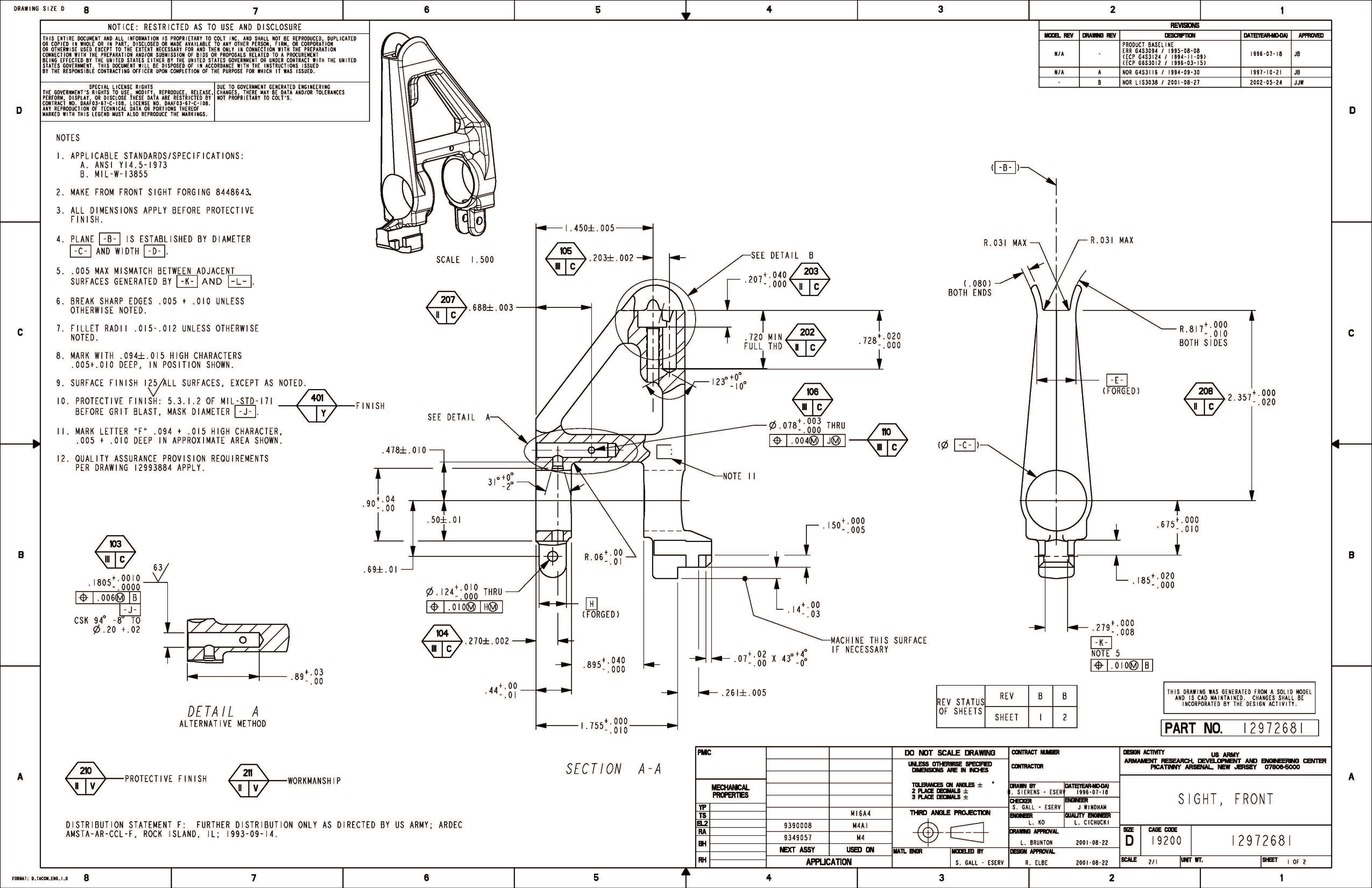
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FOR THE GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

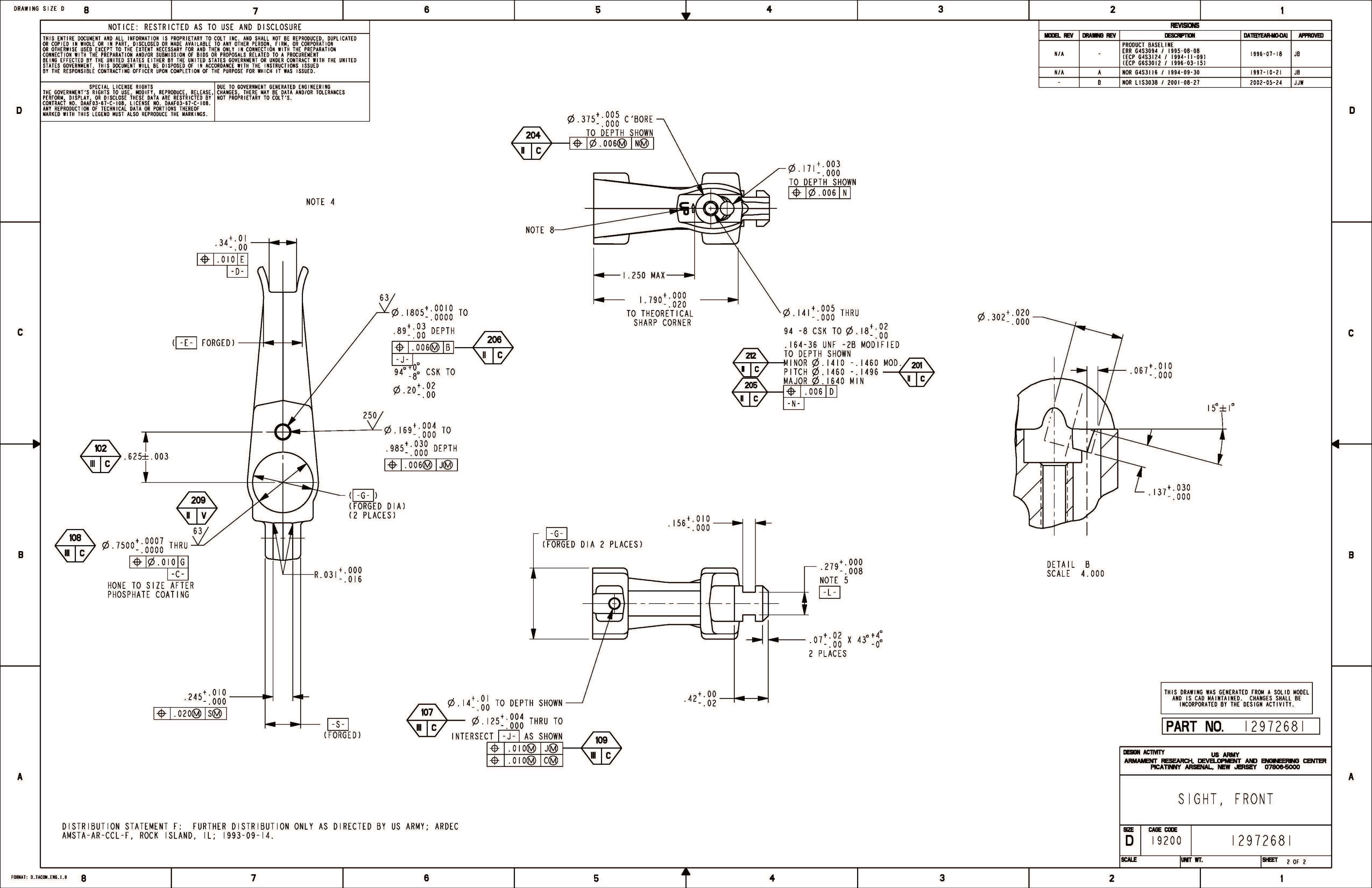
REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE/YEAR/MO/DAI	APPROVED
A	G	NOR L353161 / 2004-03-31	2004-08-14	RLV
B	H	NOR L1055113 / 2010-12-13	2011-02-11	GJC









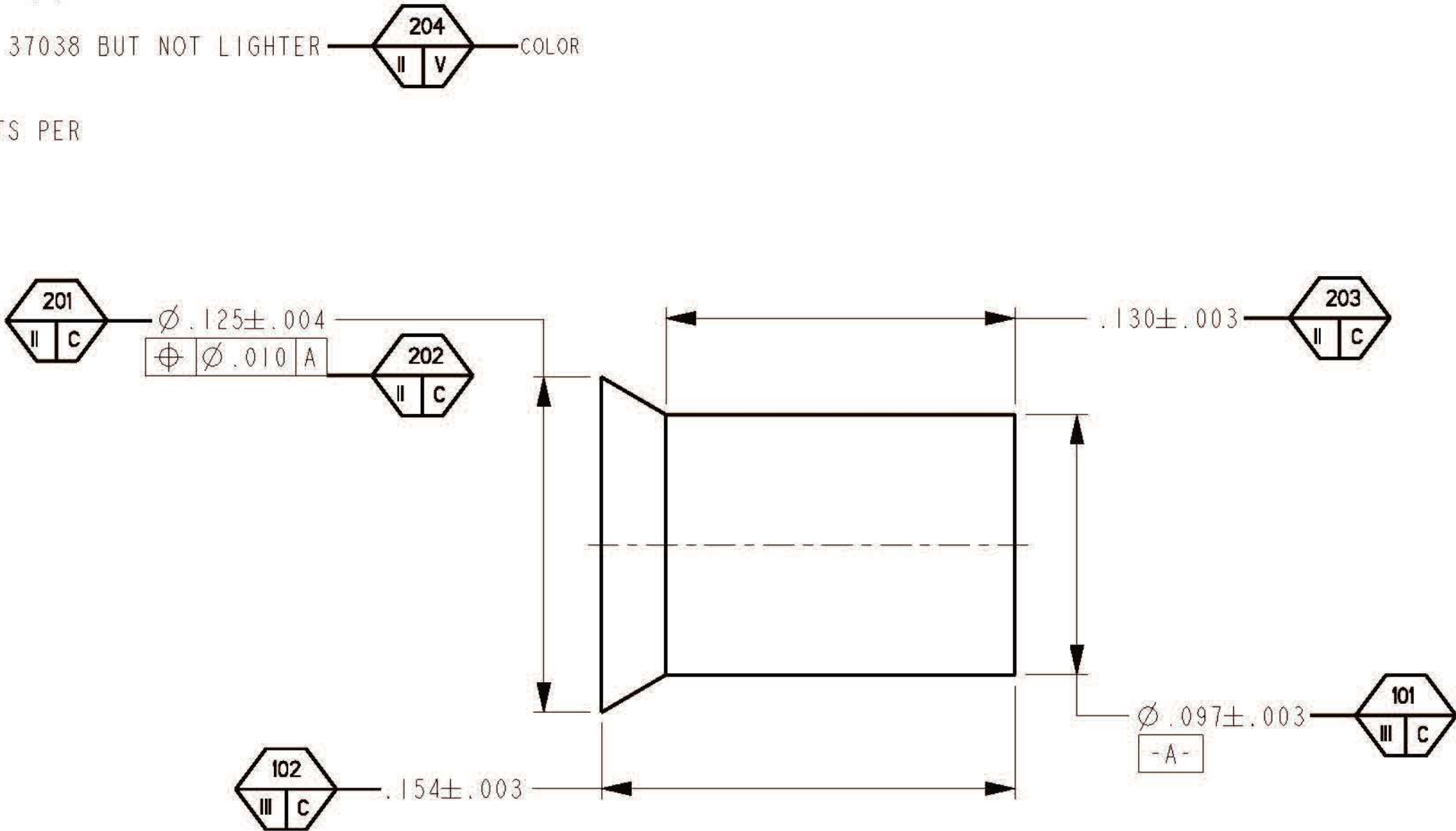




NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: SYNTHETIC ELASTOMER, CLASS I (NITRILE-BUTADIENE),  
SHORE HARDNESS 80±5 DUROMETER PER AMS-R-6855, EXCEPT THAT  
A. FOR THE LOW TEMPERATURE (COLD BEND) TESTS PER AMS-R-6855,  
EITHER LUBRICANT PER MIL-L-46000 (LSA) OR MIL-L-63460 (CLP)  
SHALL BE USED IN LIEU OF THE COMBINATION OF REFERENCE  
FUELS A AND B PER ASTM D 471.  
B. THE OZONE RESISTANCE REQUIREMENTS OF CLASS 2, TYPE A  
MATERIAL SHALL APPLY.
3. ALL CORNERS AND FILLETS SHALL BE R.005 MAX.
4. COLOR SHALL BE APPROXIMATELY COLOR NO. 37038 BUT NOT LIGHTER  
THAN COLOR NO. 36076 OF FED-STD-595.
5. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING NUMBER 12993884 APPLY.

REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR G5S3081 (ECP G5S3101 / 1995-09-15)	1995-12-11	HJS
N/A	A	NOR G6S3117 / 1996-07-19 (ECP G6S3011 / 1996-02-27)	1996-12-04	FET
N/A	B	NOR L8S3046 / 1999-05-24	1999-07-12	FET
N/A	C	NOR L9S3041 / 2000-01-13	2000-02-14	RLV
N/A	D	NOR L0S3033 / 2000-09-20	2000-10-06	RLV
N/A	E	NOR LIS2101 / 2001-08-23	2001-09-26	RLV
-	F	NOR LIS3067 / 2002-03-26	2002-05-23	JJW
A	G	NOR L07S3067 / 2007-07-27	2007-09-06	BMG



301 402  
Z Y  
STM (SPECIAL TEST METHOD) 301

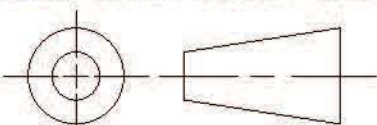
205  
II V  
WORKMANSHIP

STM 301: DIMENSIONAL CONTROL OF MOLDED PARTS

FOR EACH CONTRACT, THE CONTRACTOR SHALL PROVIDE THE GOVERNMENT REPRESENTATIVE WITH A CERTIFIED FIRST PIECE LAYOUT REPORT. FIRST PIECE SAMPLES FOR THE REPORT SHALL CONSIST OF NOT LESS THAN THREE (3) PARTS FROM EACH CAVITY OF EACH MOLD TO BE USED TO SATISFY THE CONTRACT QUANTITY. DIMENSIONAL CHARACTERISTICS OF DRAWING NUMBER 12972693 FOR EACH SAMPLE PART SHALL BE TABULATED ON THE INSPECTION LAYOUT REPORT AND CERTIFIED TO BE WITHIN DRAWING TOLERANCES. WHEN THE MOLDS ARE REWORKED, ALTERED, OR REPAIRED, SUCH THAT DIMENSIONS AFFECTING FIT ARE CHANGED, A NEW FIRST PIECE SAMPLE SHALL BE SUBMITTED AND APPROVED BEFORE SUBMISSION OF PRODUCTION QUANTITIES. THE CHANGED OR REWORKED DIMENSIONS SHALL BE RECORDED ON THE INSPECTION LAYOUT REPORT.

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12972693

PMIC				DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		CONTRACT NUMBER  CONTRACTOR  DRAWN BY G. STRAHL DATE(YEAR-MO-DA) 1995-12-11  CHECKER S. GALL - ESERV ENGINEER L. KO ENGINEER L. CICHUCKI  DRAWING APPROVAL L. BRUNTON 2002-03-21  DESIGN APPROVAL R. ELBE 2002-03-21		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
		M4A1						BUFFER, EXTRACTOR			
MECHANICAL PROPERTIES		M4									
		M16A4									
		M16A3									
YP		M16A2									
TS		M16A1		SIZE C CAGE CODE 19200 DWG NO. 12972693							
EL2	13004786	M16									
RA	12972692										
BH		NEXT ASSY	USED ON			SCALE 20.000 UNIT WT. 0.000064 SHEET 1 OF 1					
RH		APPLICATION								MATL ENGR	MODELED BY G. STRAHL

DISTRIBUTION STATEMENT A.  
APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.



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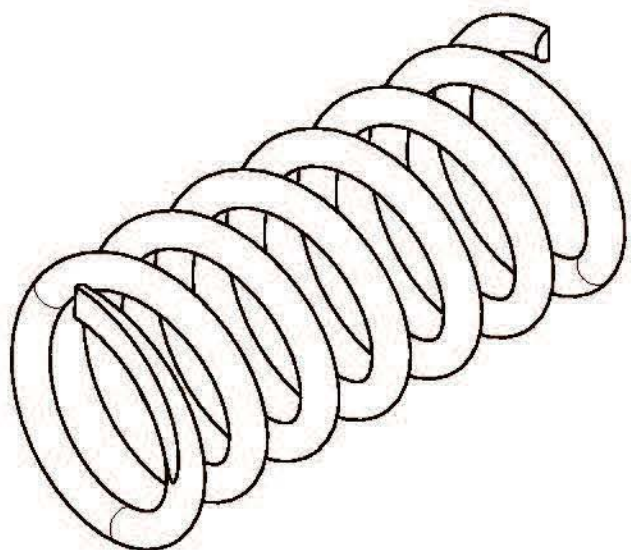
DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

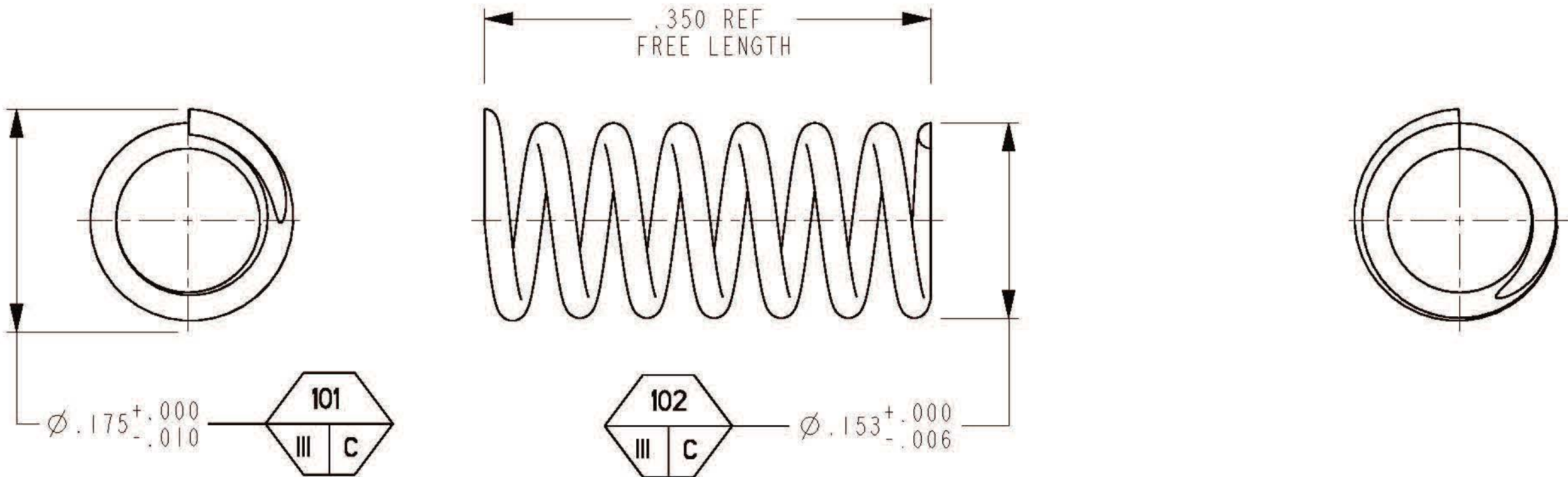
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR 64S3003 (ECP 64S3015 / 1994-03-24)	1994-05-11	DR
-	A	NOR L2S3033 / 2002-07-22	2002-08-05	JJW

NOTES

- SPEC MIL-W-13855 AND ANSI Y14.5-1973 APPLY.
- MATERIAL:  
WIRE, HIGH TENSILE MUSIC WIRE,  
MIN TENSILE 376,000 PSI., PER ASTM A228.
- SURFACE FINISH 125/ALL SURFACES.
- PROTECTIVE FINISH: 3.3.1 OF MIL-STD-171.
- WIRE DIAMETER: .0240 ±.0003.
- DIRECTION OF HELIX: OPTIONAL.
- TOTAL NO. OF COILS: (7).
- LOAD AT COMPRESSED LENGTH OF .250: 4.5 LBS ±.5 LBS.
- MAX. SOLID HEIGHT: .170
- BREAK SHARP EDGES .003 +.012.
- MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572. EXCEPT PARAGRAPH 4.4.4.1 SHALL NOT APPLY.
- TYPE OF ENDS: ONE CLOSED AND GROUND. ONE CLOSED, FLARED AND GROUND.
- SPRING REQUIREMENTS APPLY AFTER COMPRESSING TO SOLID LENGTH.
- FOR ASSEMBLY OF DISCONNECT SPRINGS TO TRIGGER USE OPTIONAL KEY AND SPRING INSERT TOOL DRAWING NO. (DI2011964) OR SIMILAR DEVICE.
- QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

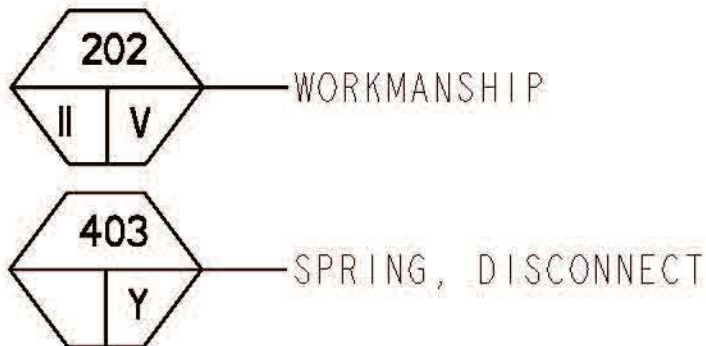


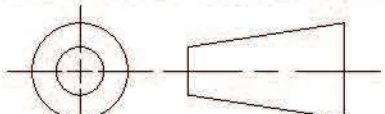
3D VIEW FOR REFERENCE ONLY  
SCALE 10.000



THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12972695



PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR						
		MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY J. WINDHAM		DATE(YEAR-MO-DA) 1994-05-11		
YP				THIRD ANGLE PROJECTION		CHECKER J. MACON-ESERV		ENGINEER J. WINDHAM		SPRING, DISCONNECT		
TS						ENGINEER L. KO		QUALITY ENGINEER E. SESE				
EL2			M4A1			DRAWING APPROVAL L. BRUNTON 2002-07-22		DESIGN APPROVAL R. ELBE 2002-07-22				
RA		12972696	M4							SIZE C	CAGE CODE 19200	DWG NO. 12972695
BH		NEXT ASSY	USED ON	MATL ENGR	MODELED BY J. WINDHAM					SCALE 10/1	UNIT WT. 0.0003	SHEET 1 OF 1
RH		APPLICATION										

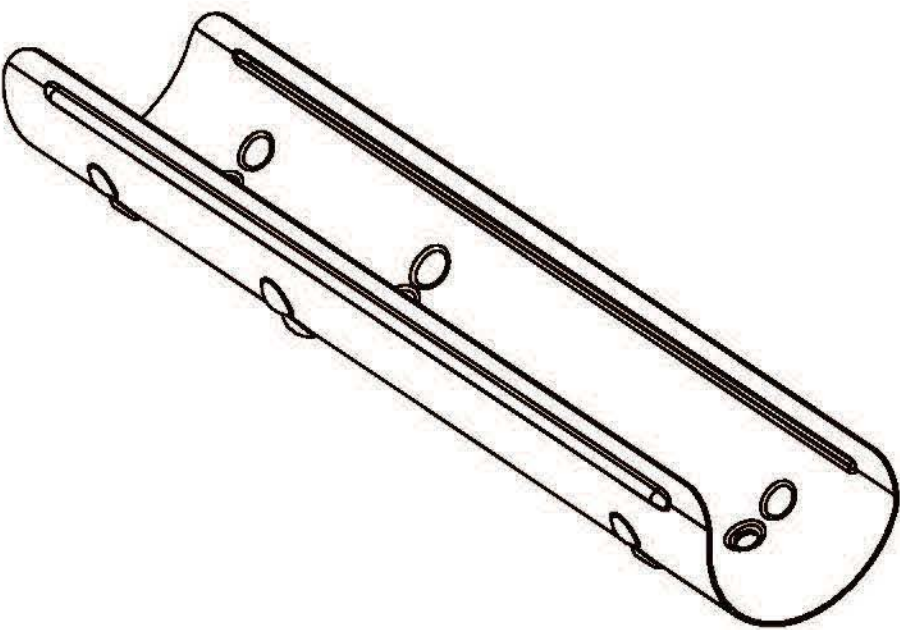
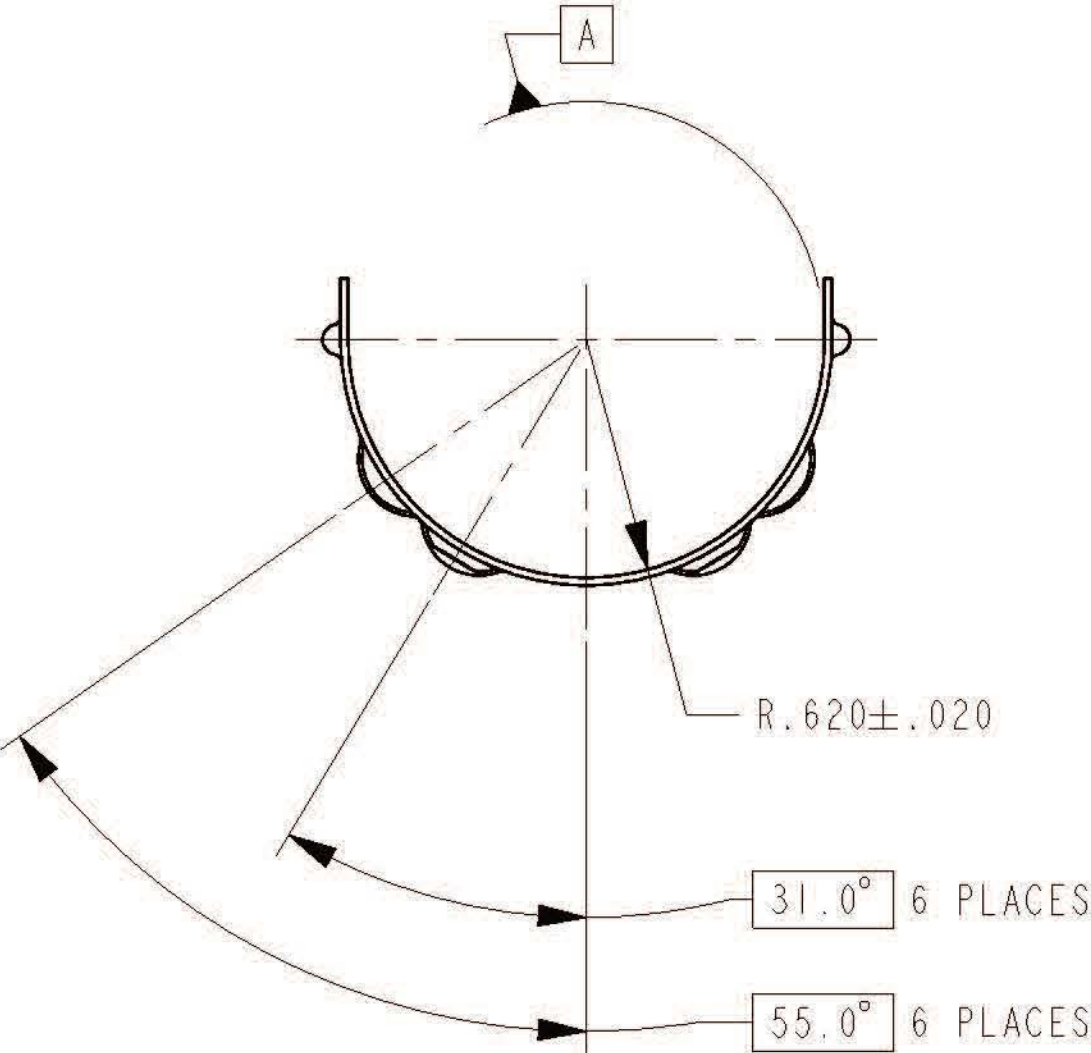
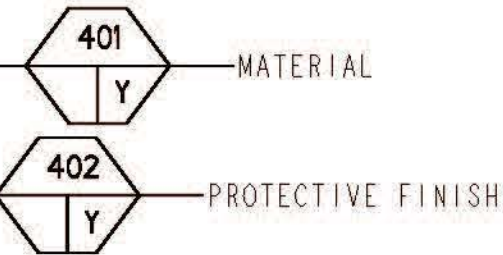






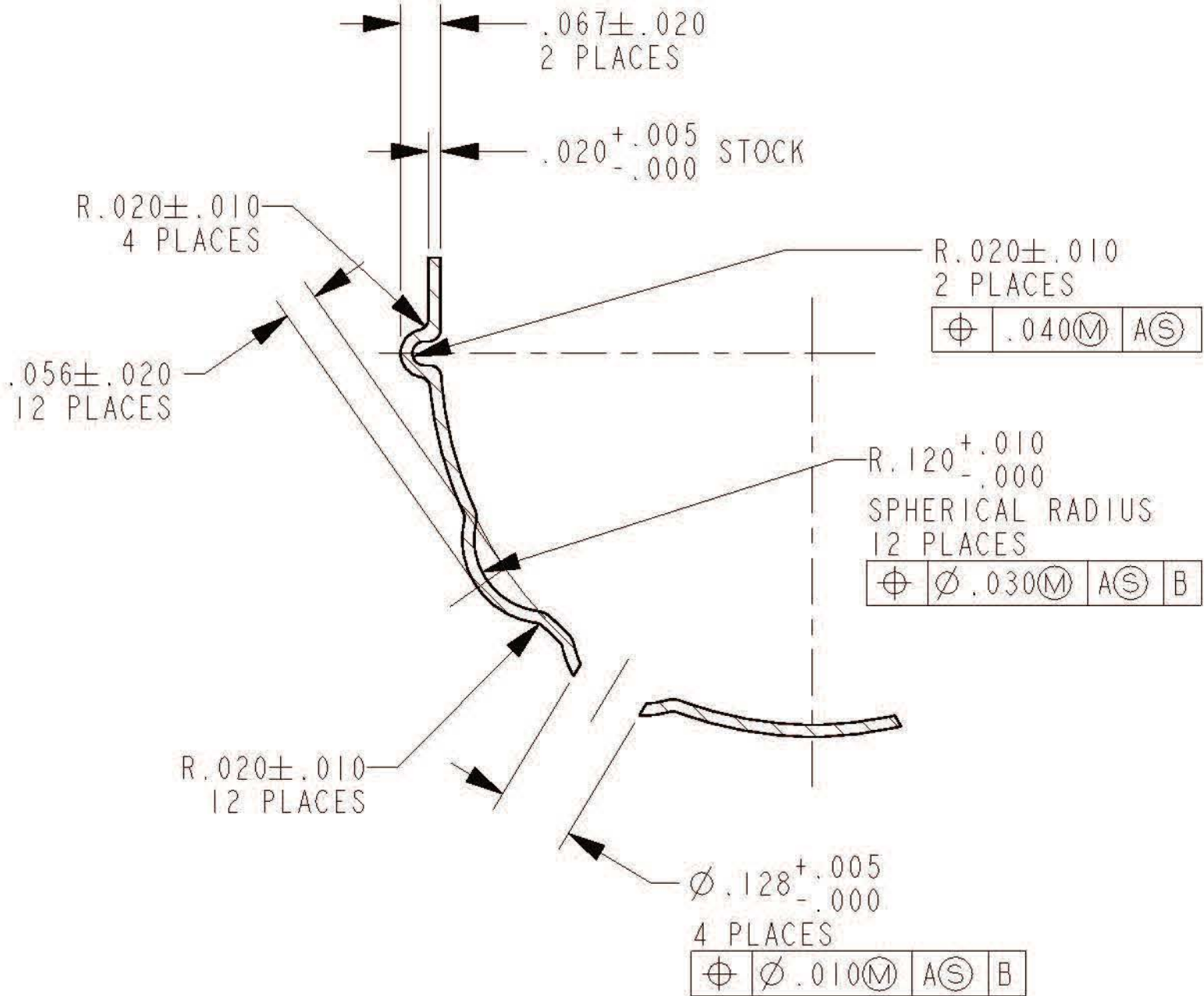
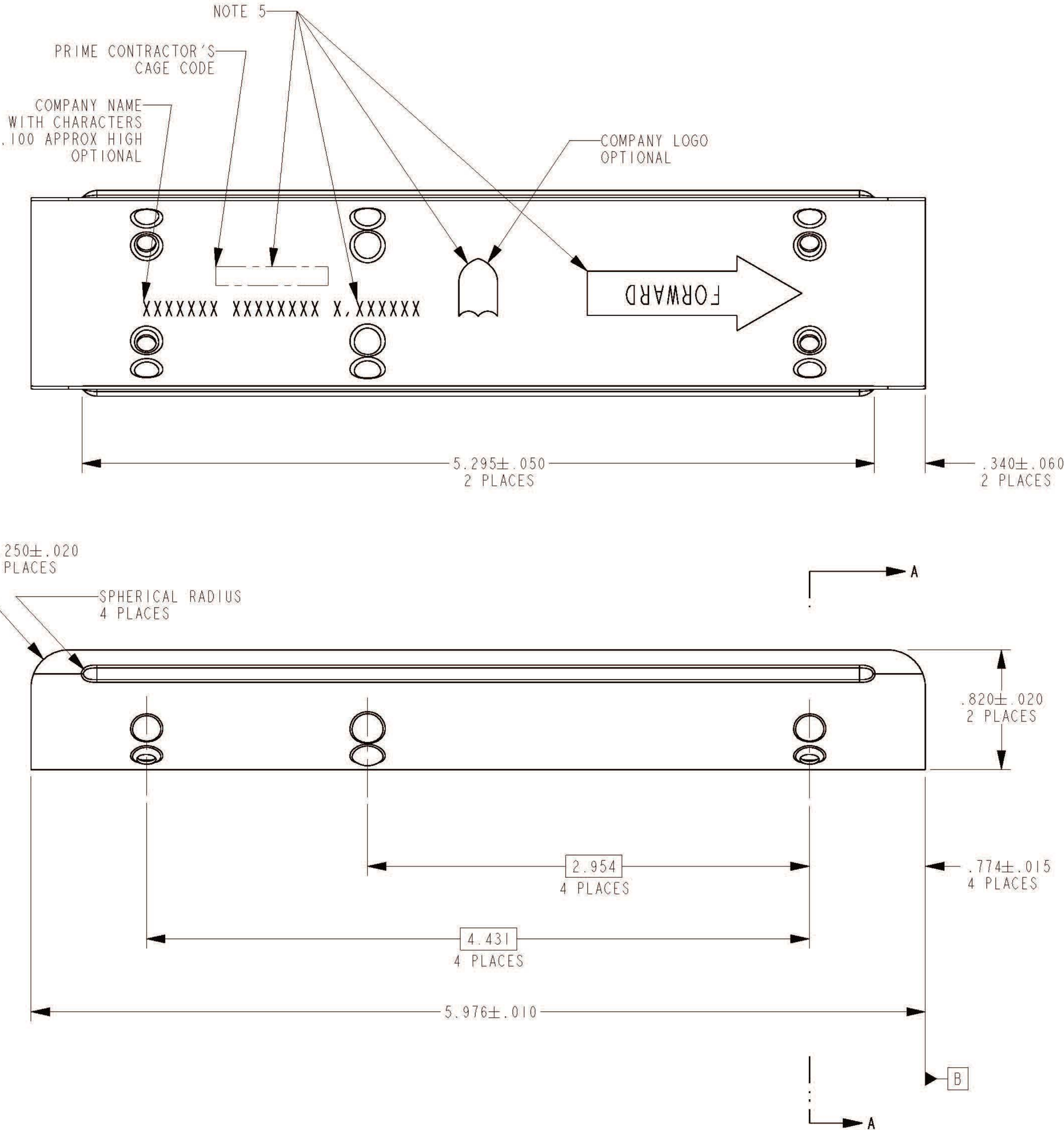
NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. ASME Y14.100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.
2. MATERIAL: ALUMINUM ALLOY 3003-H14 PER  
ASTM B 209.
3. PROTECTIVE FINISH: CONVEX SIDE ONLY.  
COAT WITH EVERLUBE 626. CURE AT 350° F  
FOR 20 MINUTES MIN. COLOR TO BE BLACK.
4. UNLESS OTHERWISE SPECIFIED, BREAK EDGES  
.010 MAX.
5. IMPRINT MARKINGS AS SHOWN WITH CHARACTERS  
.125 APPROX HIGH EXCEPT AS NOTED. ALLOW  
IMPRINT TO PROTRUDE FROM BACK SIDE OF PART  
TO ENHANCE LEGIBILITY.
6. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 1.000

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AMSRD-AAR-AIS, ROCK ISLAND, IL.



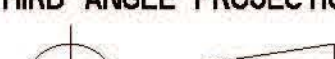
SECTION A-A  
SCALE 4.000

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PART NO. 12973033

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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY					
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000					
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 1997-11-13		HANDGUARD LINER			
						CHECKER D. COLLUM		ENGINEER A. FOLTZ					
						ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG					
YP			M4A1	<div>THIRD ANGLE PROJECTION</div> 		DRAWING APPROVAL J. WINDHAM 2006-01-24		SIZE D		CAGE CODE 19200		DWG NO. 12973033	
TS			M4			DESIGN APPROVAL T. KARCHER 2006-01-24		SCALE 2.000		UNIT WT. 0.029		SHEET 1 OF 1	
EL2		12973099	M16A4										
RA		12973029	M16A3										
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY B. NICEWANNER							
RH		APPLICATION											



## NOTES

- I. APPLICABLE STANDARDS/SPECIFICATIONS:

A. ASME Y14.100.

B. ASME Y14.5M-1994.

C. MIL-W-13855.

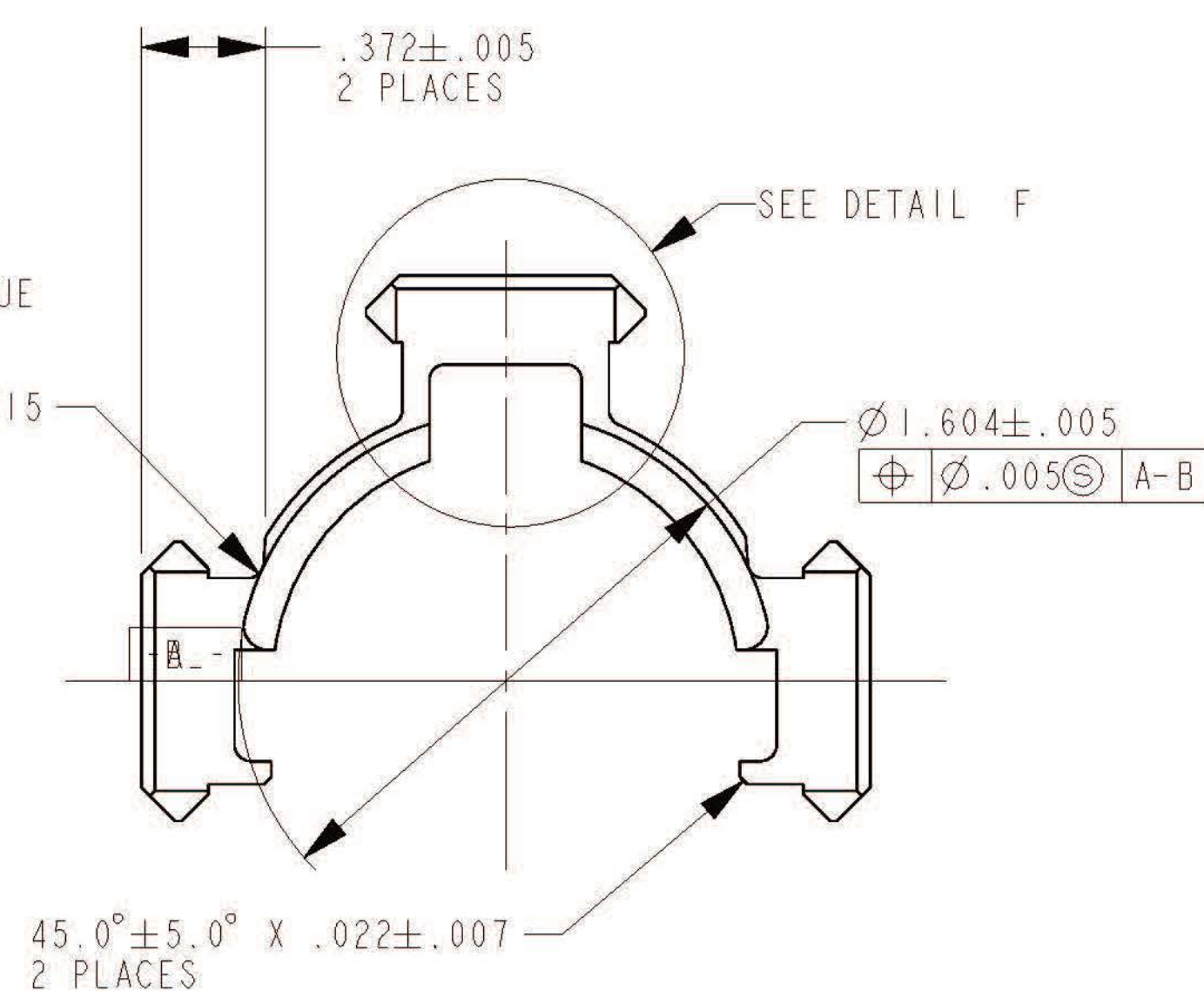
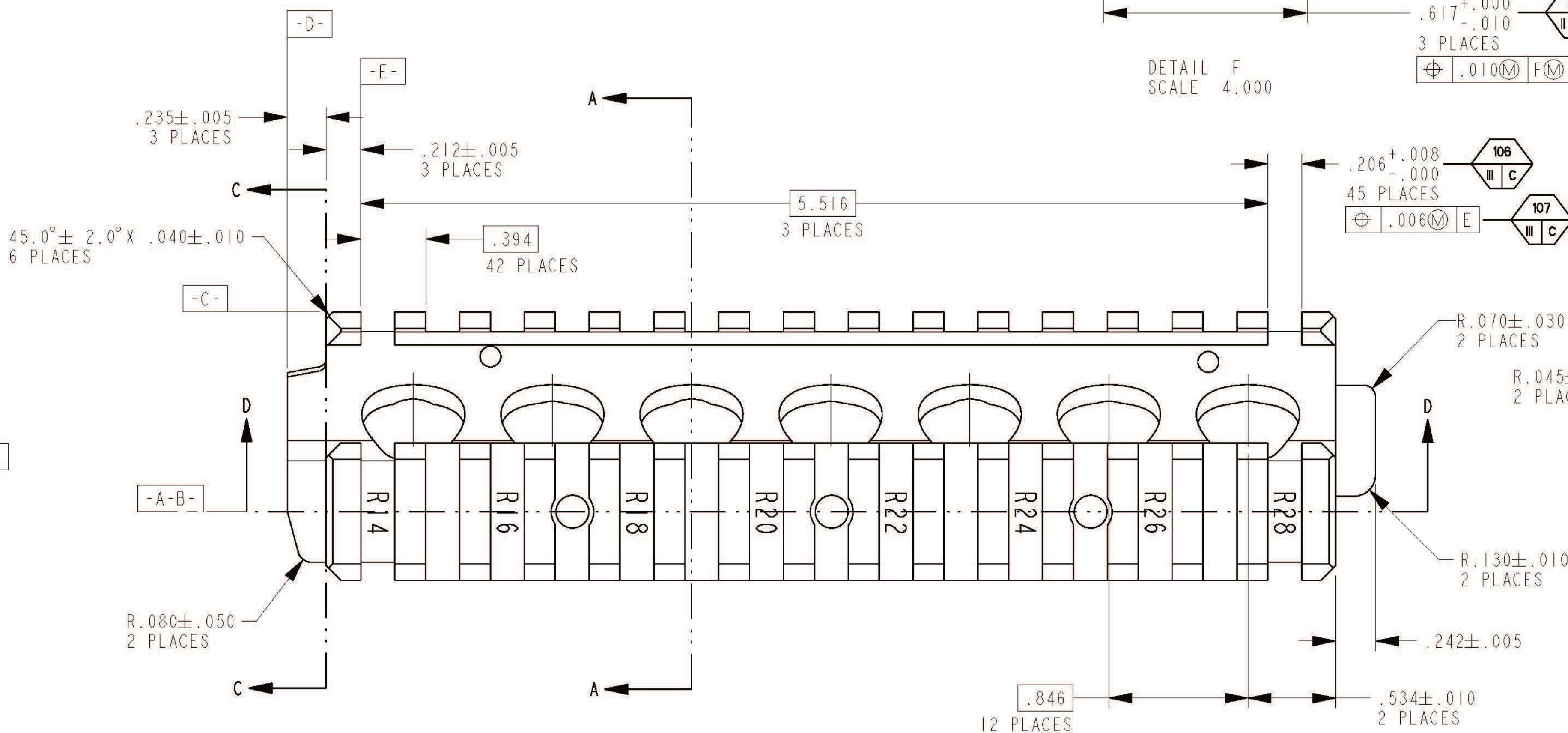
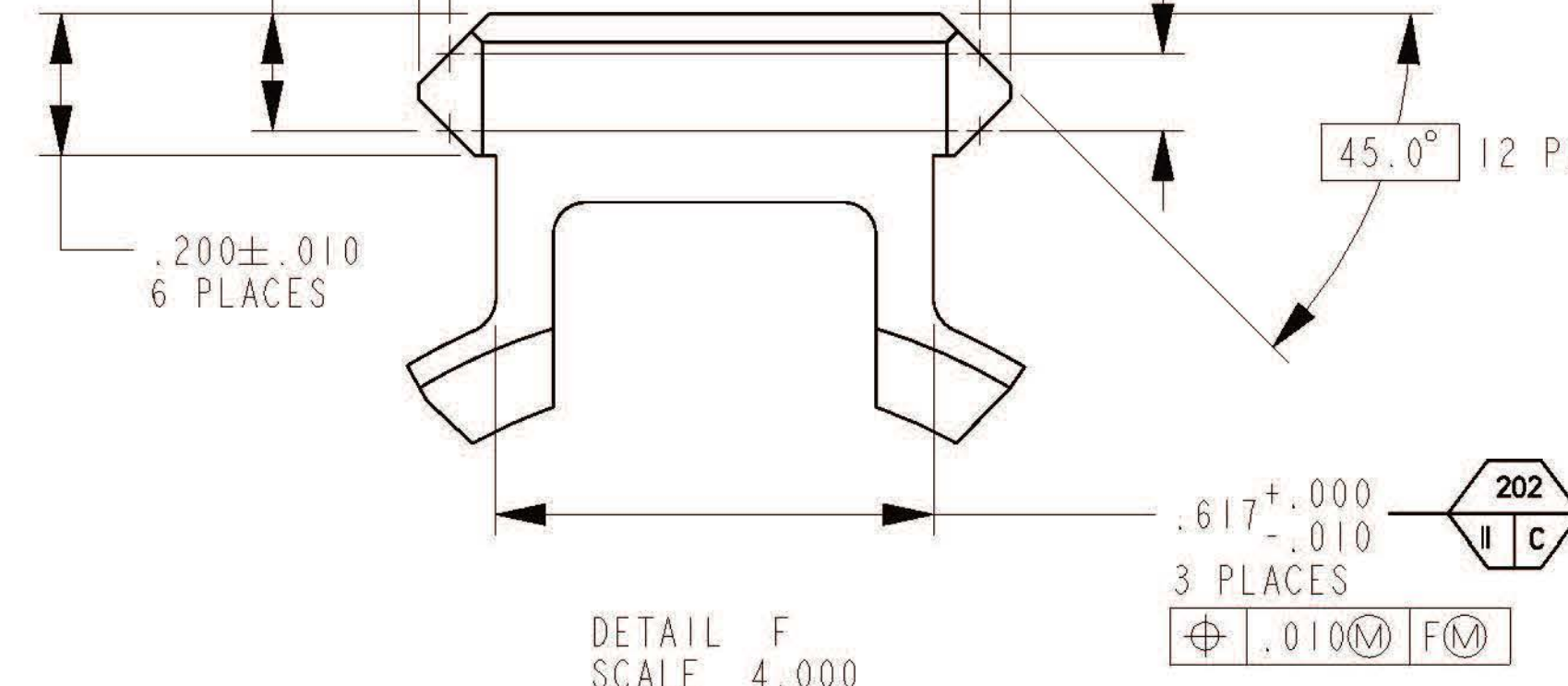
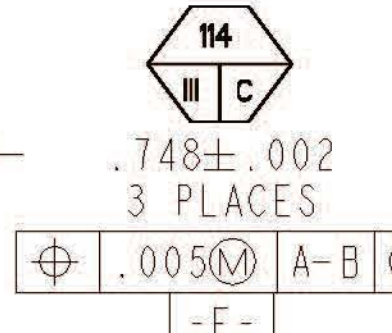
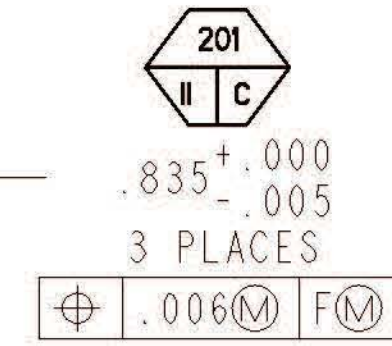
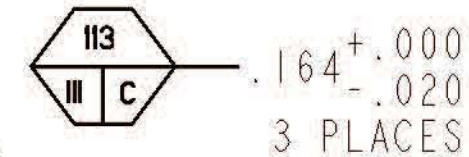
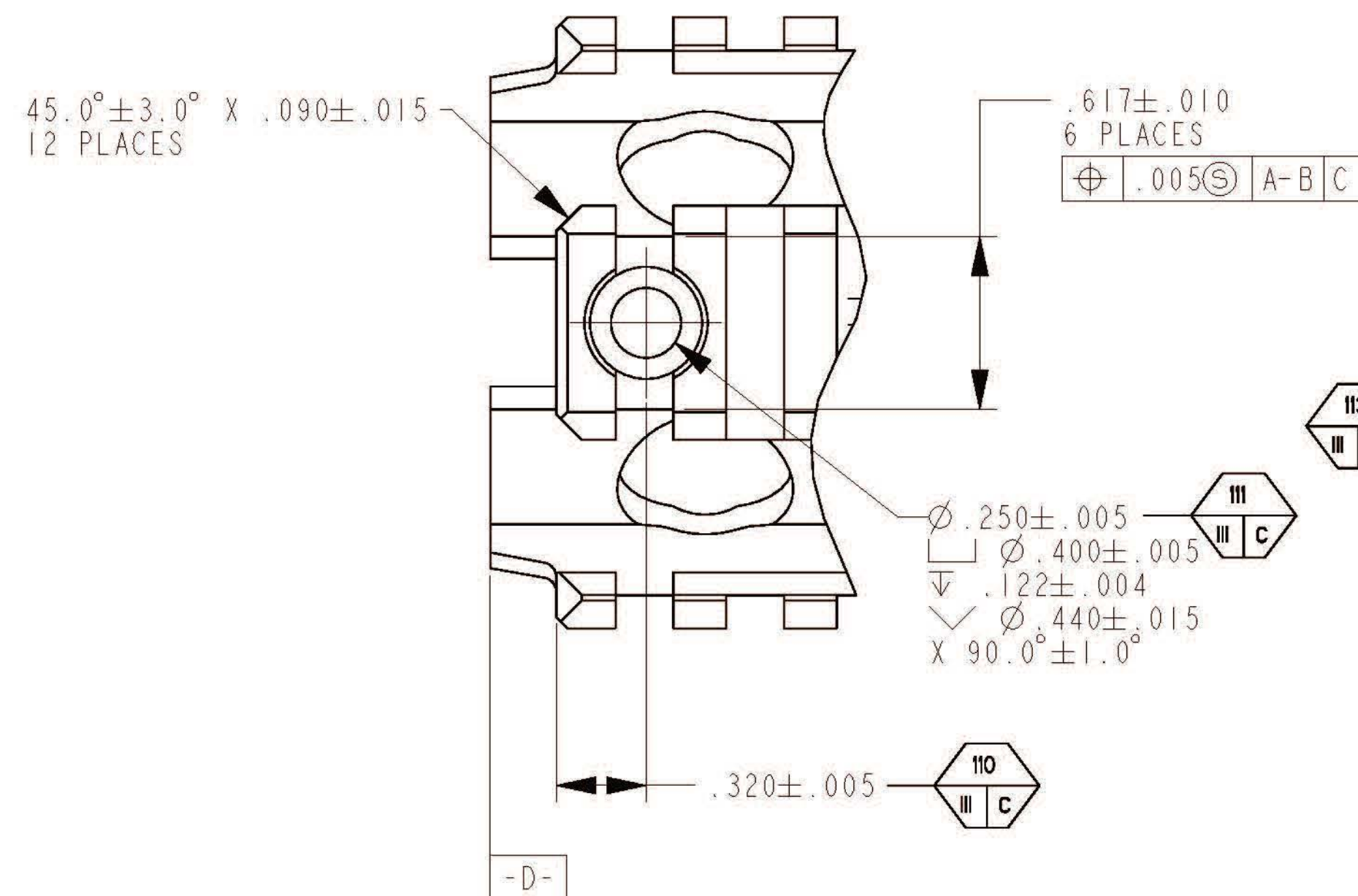
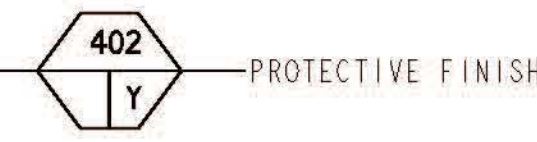
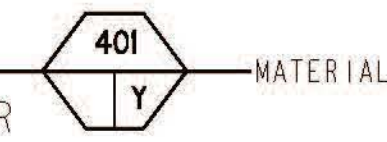
2. MATERIAL: ALUMINUM ALLOY 6061-T6510 OR —  
T6511 PER SAE AMS-QQ-A-200/8, OR T651 PER  
SAE AMS-QQ-A-225/8 OR ASTM B 209.

3. BREAK EDGES AND CORNERS  $R.002^{+.010}_{-.000}$  AND  
FILLET  $R.015 \pm .010$  EXCEPT AS NOTED.

4. PROTECTIVE FINISH: FINISH 7.2.2 OF MIL-STD-171. COLOR SHALL BE APPROXIMATELY BLACK NO. 37038 BUT NOT LIGHTER THAN NO. 36076 OF FED-STD-595. A NON-REFLECTIVE MATTE SURFACE IS REQUIRED.

5. SURFACE FINISH: 125/ EXCEPT AS NOTED.

6. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.



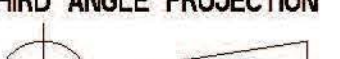
REV STATUS OF SHEETS	REV	G	G	G
	SHEET	1	2	3

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PART NO. 12973097

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				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
	MECHANICAL PROPERTIES			TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY R. BROWN		DATE (YEAR-MO-DA) 1997-11-14		UPPER HANDGUARD	
YP				THIRD ANGLE PROJECTION 		CHECKER R. NIEWANNER		ENGINEER A. FOLTZ			
TS						ENGINEER W. STEVENS		QUALITY ENGINEER A. RONG			
EL2						DRAWING APPROVAL J. WINDHAM		2006-01-24			
RA		12973096	M4A1			DESIGN APPROVAL T. KARCHER		2006-01-24		SIZE F	CAGE CODE 19200
BH			M4							DWG NO. 12973097	
		NEXT ASSY	USED ON	MATL ENGR	MODELED BY					SCALE 2.000	UNIT WT. 0.309
RH		APPLICATION			R. BROWN					SHEET 1 OF 3	



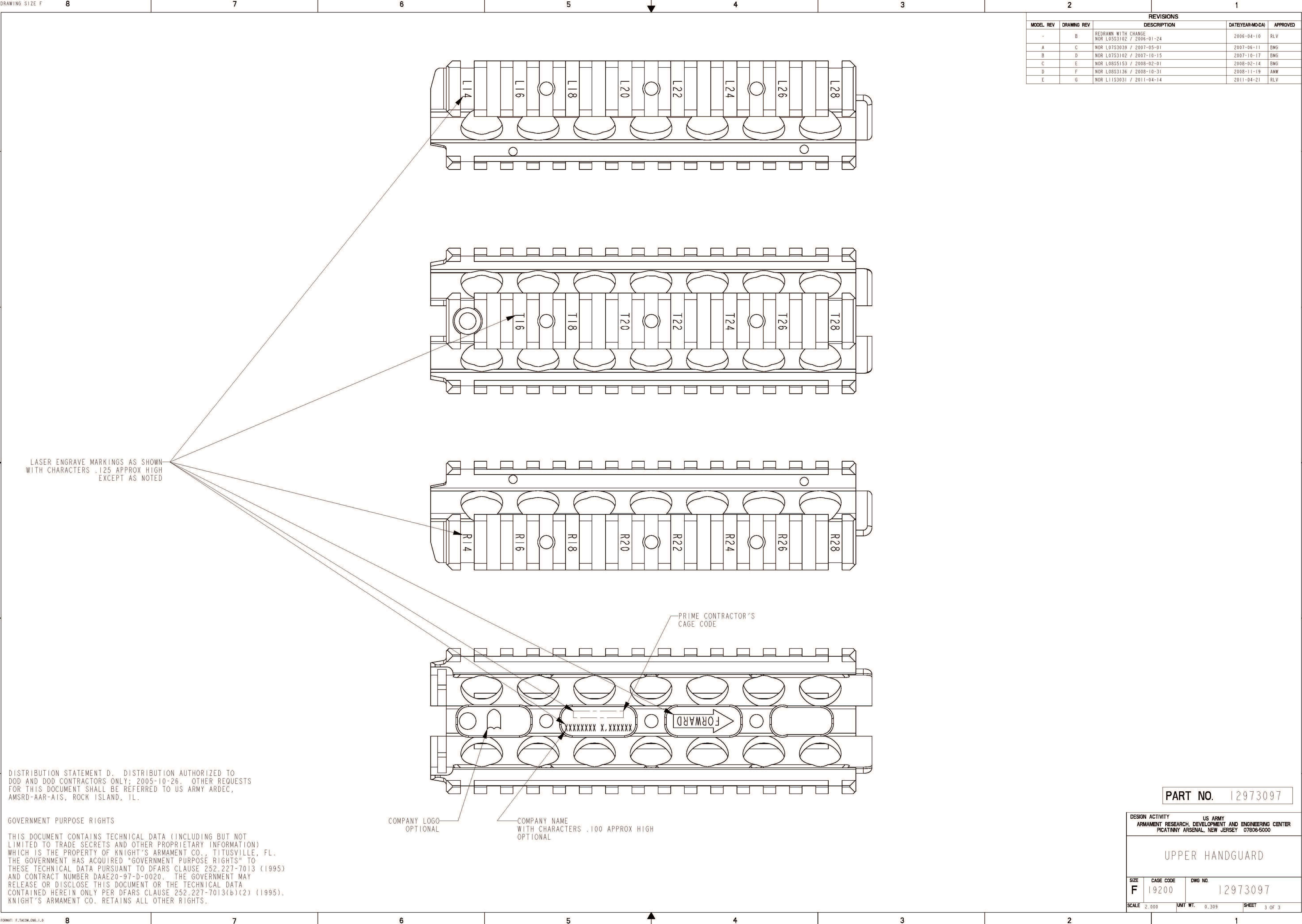
**F**



**A**

1





REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE/YEAR-MO-DAI	APPROVED
-	B	REDRAWN WITH CHANGE NOR L0553102 / 2006-01-24	2006-04-10	RLV
A	C	NOR L07S3039 / 2007-05-01	2007-06-11	BWG
B	D	NOR L07S3102 / 2007-10-15	2007-10-17	BWG
C	E	NOR L08S5153 / 2008-02-01	2008-02-14	BWG
D	F	NOR L08S3136 / 2008-10-31	2008-11-19	AMW
E	G	NOR L11S3031 / 2011-04-14	2011-04-21	RLV



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. ASME Y14.100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.

2. MATERIAL: ALUMINUM ALLOY 6061-T6510 OR T6511 PER SAE AMS-QQ-A-200/8, OR T651 PER SAE AMS-QQ-A-225/8 OR ASTM B 209.

3. BREAK EDGES AND CORNERS  $R.002^{+}.010_{-.000}$  AND FILLET  $R.015\pm.010$  EXCEPT AS NOTED.

4. PROTECTIVE FINISH: FINISH 7.2.2 OF MIL-STD-171. COLOR SHALL BE APPROXIMATELY BLACK NO. 37038 BUT NOT LIGHTER THAN NO. 36076 OF FED-STD-595. A NON-REFLECTIVE MATTE SURFACE IS REQUIRED.

5. SURFACE FINISH: 125/ EXCEPT AS NOTED.

6. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

401

Y

MATERIAL

402

Y

PROTECTIVE FINISH

REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE/YEAR-MO-DAI	APPROVED
-	A	REDRAWN WITH CHANGE NOR L0553102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L0753102 / 2007-10-15	2007-10-17	BMG
B	C	NOR L0753128 / 2008-01-04	2008-01-10	BMG
C	D	NOR L0855153 / 2008-02-01	2008-02-14	BMG
D	E	NOR L0853013 / 2008-03-25	2008-04-23	BMG
E	F	NOR L0853136 / 2008-10-31	2008-11-19	AMW
F	G	NOR L1153031 / 2011-04-14	2011-04-21	RLV

The drawing includes the following views and dimensions:

- Top View:** Shows a rectangular profile with a width of 4.430 (2 places) and a height of 1.360. It features 16 places of R.190±.010 fillets and 2 places of .750 fillets. The overall length is 4.849±.010. Callouts A, B, and D are present.
- Side View:** Shows a profile with a width of 5.166 and a height of 1.095±.010. It features 14 places of .738 fillets and 2 places of .079±.007 fillets. The overall length is 6.141±.005. Callouts A, B, C, D, and E are present.
- Isometric View:** Shows the part from an isometric perspective with a scale of 1.000.
- Detail F:** A circular detail showing a cross-section with a diameter of 1.607±.002 and a thickness of .005. It features 2 places of .010 fillets and 2 places of .367±.005 fillets. Callouts A, B, and C are present.

Callouts and features include:

- 401: MATERIAL
- 402: PROTECTIVE FINISH
- 203: MISSING OR DEFECTIVE PROTECTIVE FINISH
- 204: WORKMANSHIP
- 102: TRUE 2 PLACES
- 103: C

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PMIC

MECHANICAL PROPERTIES

YP

TS

EL2

RA

BH

RH

APPLICATION

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ON ANGLES  $\pm 2^\circ$   
2 PLACE DECIMALS  $\pm .01$   
3 PLACE DECIMALS  $\pm .005$

THIRD ANGLE PROJECTION

MATL ENGR

MODELED BY

CONTRACT NUMBER

CONTRACTOR

DRAWN BY

CHECKER

ENGINEER

QUALITY ENGINEER

DRAWING APPROVAL

DESIGN APPROVAL

DESIGN ACTIVITY

US ARMY

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

SIZE

CAGE CODE

DWG NO.

SCALE

UNIT WT.

SHEET

LOWER HANDGUARD

12973100

1 OF 2



REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE/YEAR-MO-DAI	APPROVED
-	A	REDRAWN WITH CHANGE NOR L0553102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L07S3102 / 2007-10-15	2007-10-17	BMG
B	C	NOR L07S3128 / 2008-01-04	2008-01-10	BMG
C	D	NOR L08S5153 / 2008-02-01	2008-02-14	BMG
D	E	NOR L08S3013 / 2008-03-25	2008-04-23	BMG
E	F	NOR L08S3136 / 2008-10-31	2008-11-19	AMW
F	G	NOR L11S3031 / 2011-04-14	2011-04-21	RLV

F

E

D

C

B

A

SECTION B-B

SECTION A-A

SECTION D-D

SECTION E-E

SECTION C-C

DETAIL F SCALE 6.000

SECTION F-F

SECTION G-G

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PART NO. 12973100

DESIGN ACTIVITY US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

LOWER HANDGUARD

SIZE	CAGE CODE	DWG NO.
F	19200	12973100
SCALE	2.000	UNIT WT. 0.154 SHEET 2 OF 2



1



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.
2. MATERIAL: NYLON 66, INJECTION MOLDING MATERIAL,  
20% TO 24% GLASS-FILLED PER ASTM D 4066 PA0160 G22.  
COLOR SHALL BE APPROXIMATELY COLOR NO. 37038 BUT  
NOT LIGHTER THAN COLOR NO. 36118 OF FED-STD-595.
3. UNLESS OTHERWISE SPECIFIED, BREAK EDGES AND  
CORNERS R.020 MAX, FILLET R.025 MAX.
4. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.

401

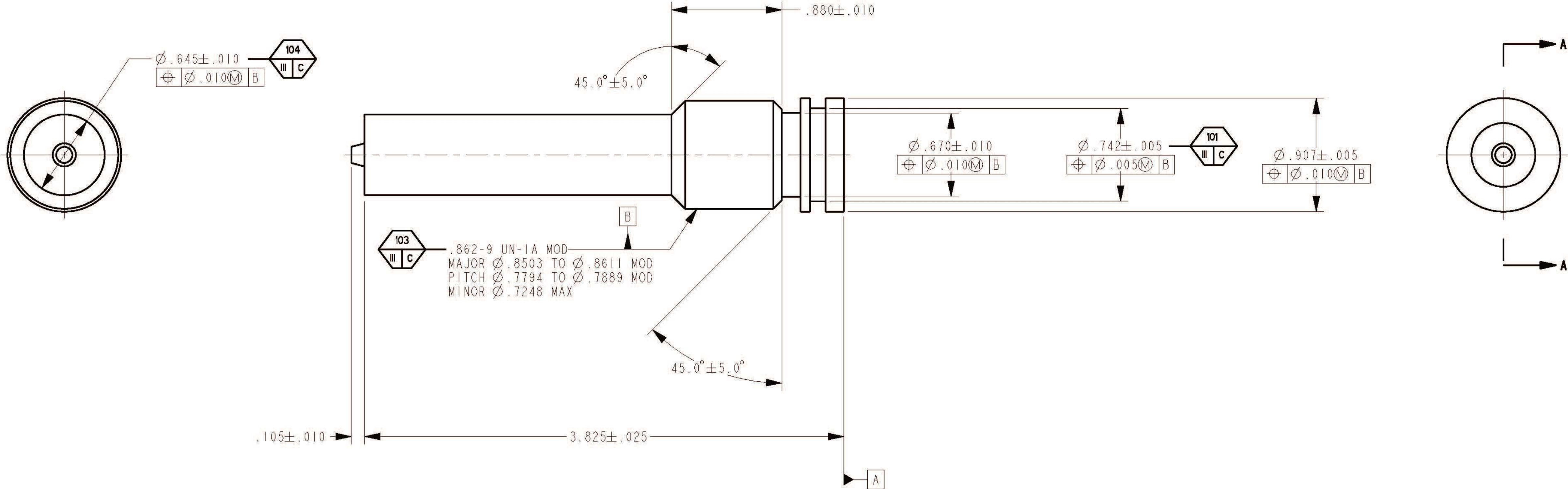
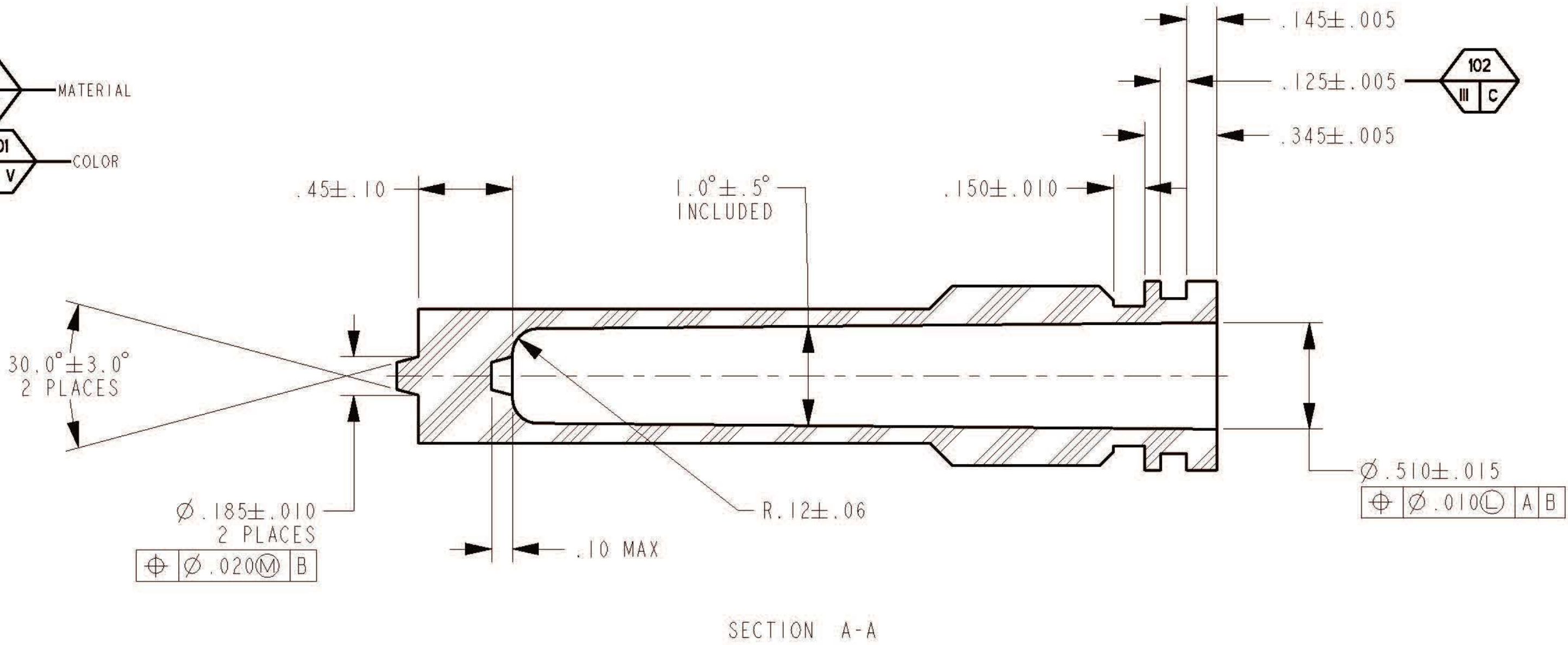
Y

MATERIAL

201

II V

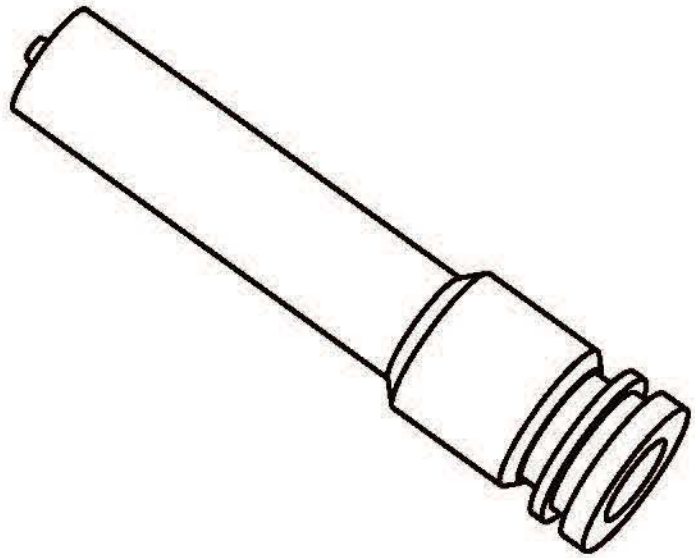
COLOR



202

II V

WORKMANSHIP



ISOMETRIC VIEW  
SCALE 1.000

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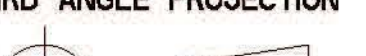
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KNIGHT'S ARMAMENT CO. RETAINS ALL OTHER RIGHTS.

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
	A	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L08S5157 / 2008-03-03	2008-03-06	BMG

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12973104

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 1997-11-13		VERTICAL PISTOL GRIP LOCK		
YP				<div>THIRD ANGLE PROJECTION</div> 		CHECKER D. COLLUM		ENGINEER A. FOLTZ				
TS						ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG				
EL2			M4A1			DRAWING APPROVAL J. WINDHAM		2006-01-24				
RA			M4			DESIGN APPROVAL T. KARCHER		2006-01-24		SIZE D		
BH			12973103	M16A4	MATL ENGR		MODELED BY R. BROWN		CAGE CODE 19200		DWG NO. 12973104	
RH			NEXT ASSY	USED ON					SCALE 2.000		UNIT WT. 0.043	
		APPLICATION							SHEET 1 OF 1			



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.
2. MATERIAL: NYLON 66, INJECTION MOLDING MATERIAL, 20% TO 24% GLASS-FILLED PER ASTM D 4066 PA0160 G22. COLOR SHALL BE APPROXIMATELY COLOR NO. 37038 BUT NOT LIGHTER THAN COLOR NO. 36118 OF FED-STD-595.
3. UNLESS OTHERWISE SPECIFIED, BREAK EDGES AND CORNERS R.020 MAX, FILLET R.020 MAX.
4. SURFACE FINISH: EXTERNAL, EXPOSED SURFACES SHALL HAVE A DULL MATTE TEXTURE. OTHER SURFACES OPTIONAL.
5. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

401

Y

MATERIAL

202

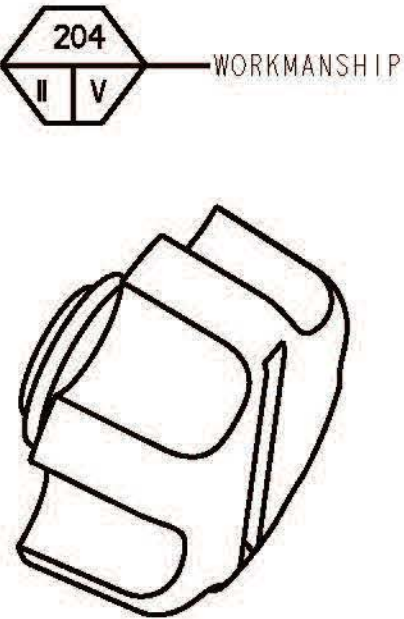
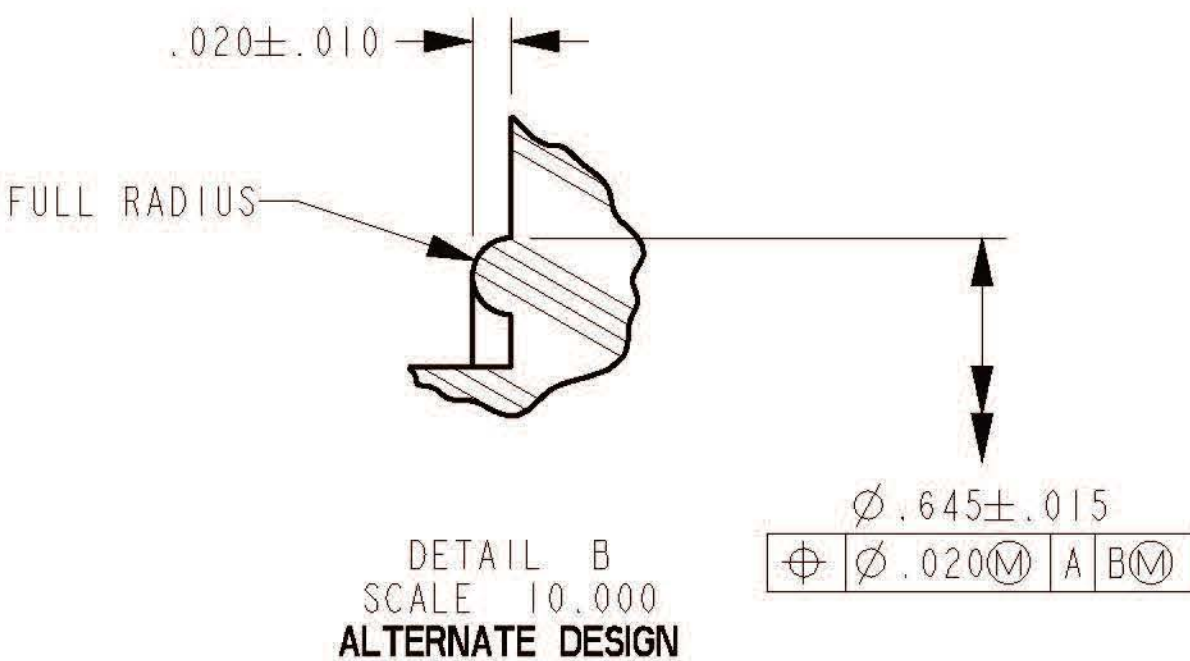
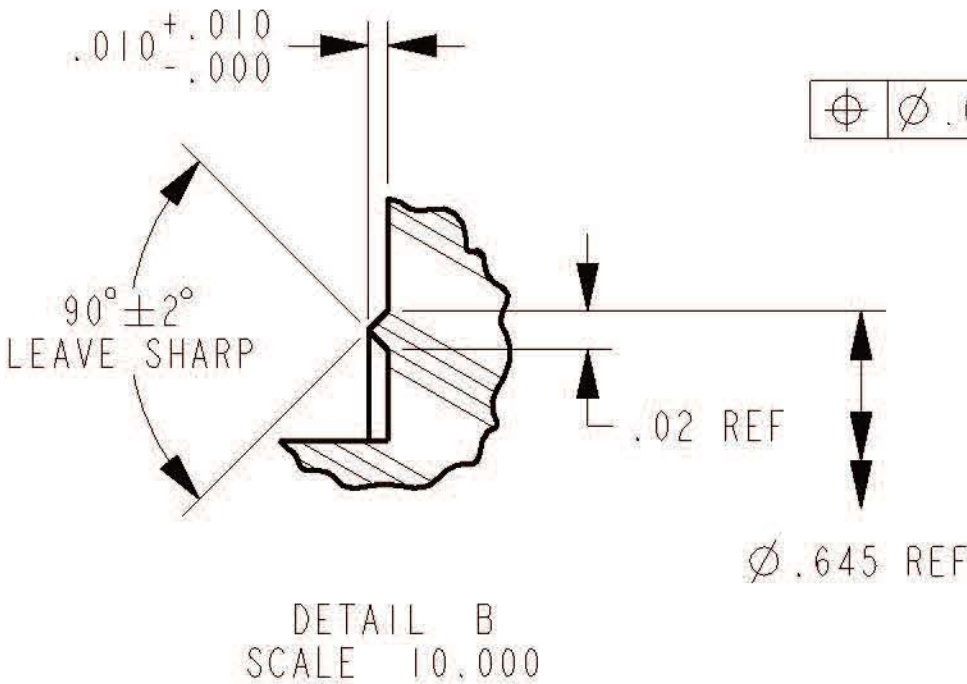
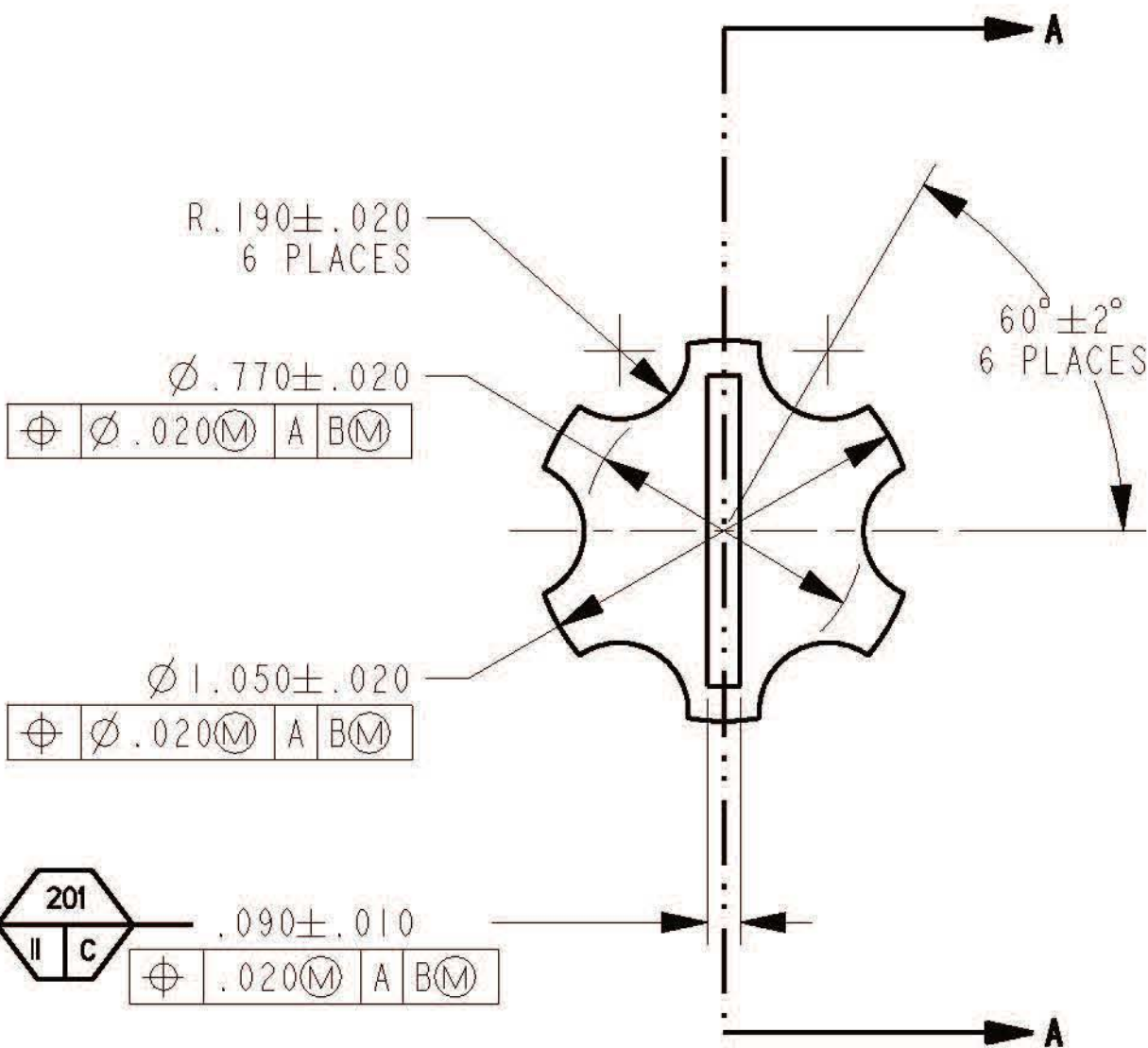
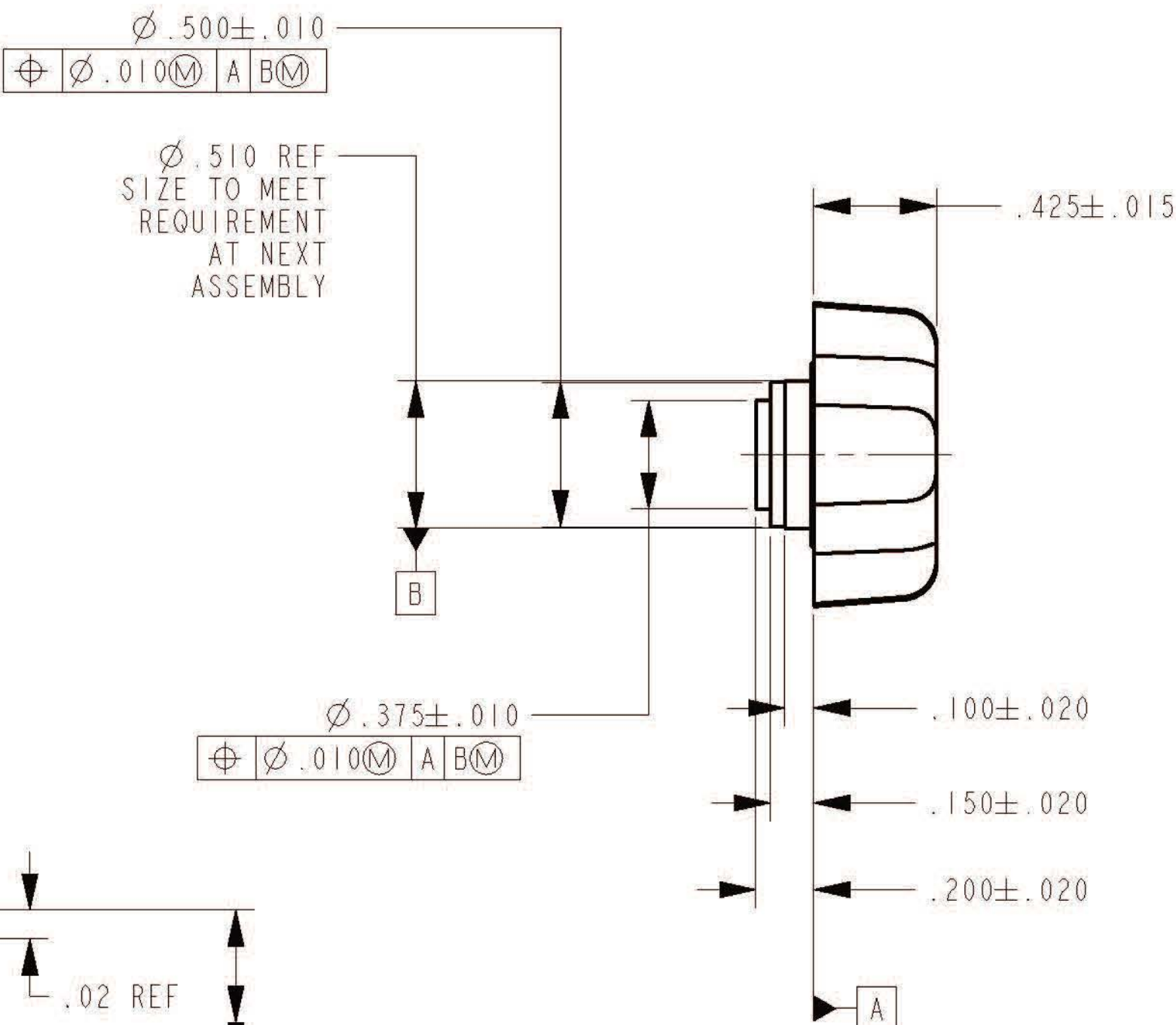
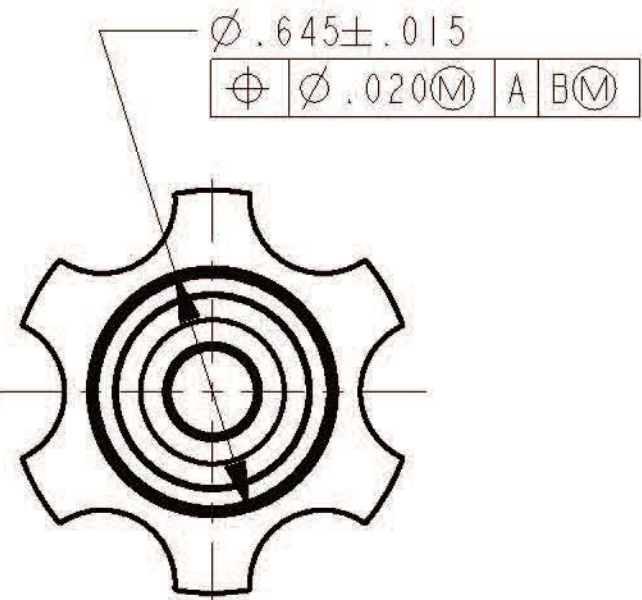
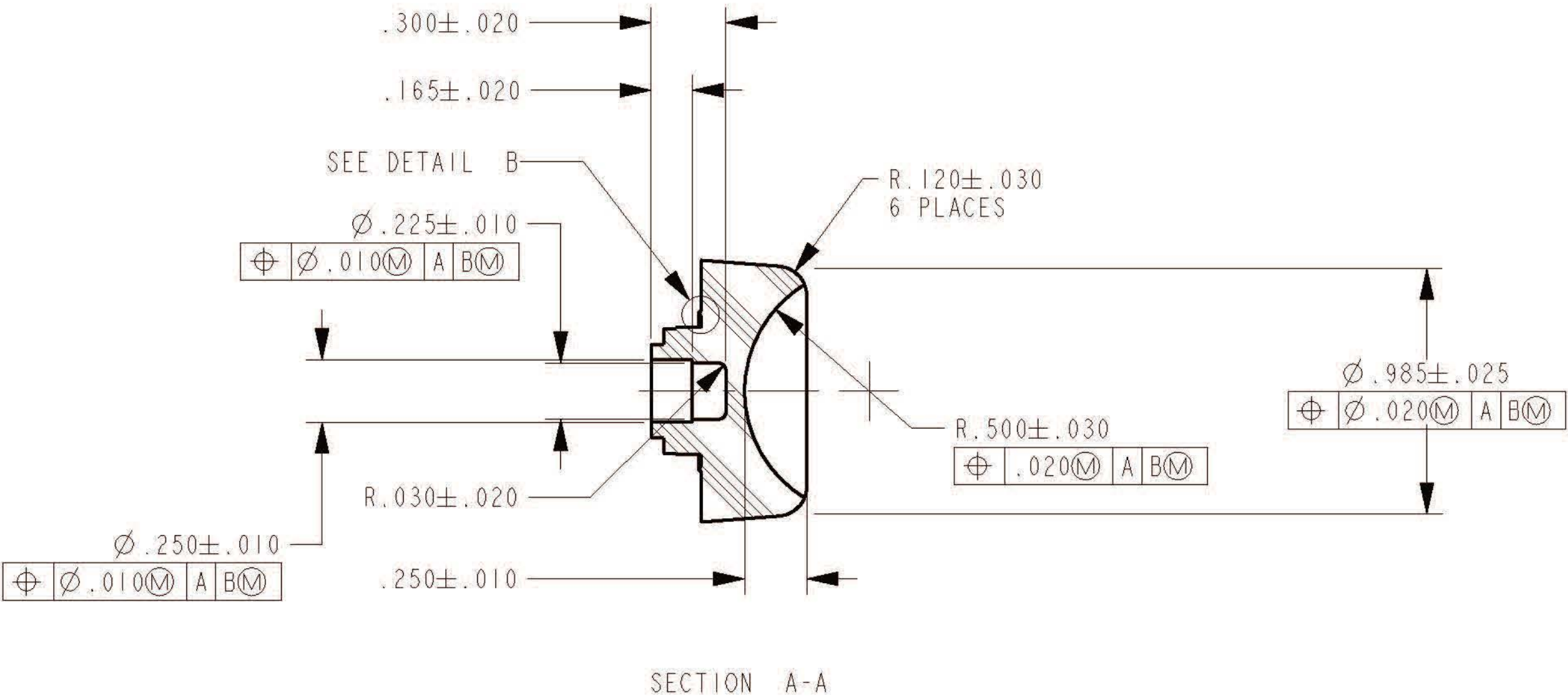
II V

COLOR

203

II V

SURFACE FINISH



ISOMETRIC VIEW

204

II V

WORKMANSHIP


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PART NO. 12973105

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PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 1997-11-13		VERTICAL PISTOL GRIP LOCK CAP		
YP						CHECKER D. COLLUM		ENGINEER A. FOLTZ				
TS		M4A1		THIRD ANGLE PROJECTION		ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG				
EL2		M4				DRAWING APPROVAL J. WINDHAM		2006-01-24		SIZE D	CAGE CODE 19200	DWG NO. 12973105
RA		12973103	M16A4			DESIGN APPROVAL T. KARCHER		2006-01-24		SCALE 2.000	UNIT WT. 0.012	SHEET 1 OF 1
BH		NEXT ASSY	USED ON	MATL ENGR	MODELED BY R. BROWN							
RH		APPLICATION										



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:

- A. MIL-STD-100.
- B. ASME Y14.5M-1994.
- C. MIL-W-13855.

2. MATERIAL: STAINLESS STEEL, TYPE 17-7PH,

AMS5529, FULL HARD, SPRING TEMPER.

3. UNLESS OTHERWISE SPECIFIED, BREAK EDGES

AND CORNERS R.005<sup>+.010</sup><sub>-.000</sub>.

4. PROTECTIVE FINISH: FINISH 3.3.4 OF MIL-STD-171,

PER DRAWING NUMBER 12993884 APPLY.

GOVERNMENT PURPOSE RIGHTS

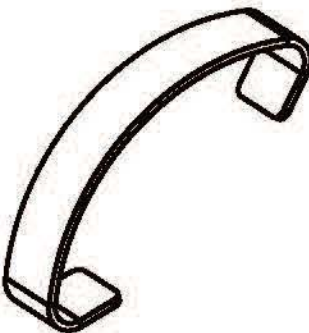
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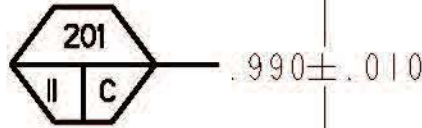
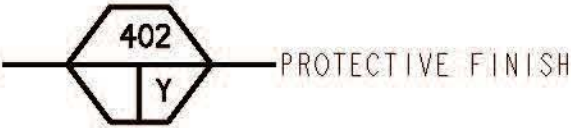
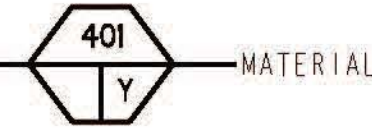
501 HARDNESS

203 MISSING OR DEFECTIVE PROTECTIVE FINISH

204 WORKMANSHIP

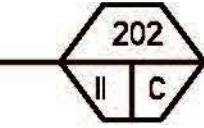
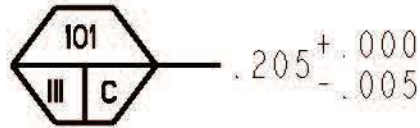


ISOMETRIC VIEW  
SCALE 2.000



R.060±.010  
2 PLACES

.218<sup>+.050</sup><sub>-.000</sub>  
2 PLACES



R.660±.030

.405±.020

21.0°±2.0°  
2 PLACES

REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	A	REDRAWN WITH CHANGE NOR L05S3102 / 2006-01-24	2006-04-10	RLV
A	B	NOR L07S3102 / 2007-10-15	2007-10-17	BMG

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12973131

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000		
MECHANICAL PROPERTIES		TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 1997-11-13	RAIL COVER SPRING		
YP		THIRD ANGLE PROJECTION		CHECKER D. COLLUM	ENGINEER A. FOLTZ			
TS				ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG			
EL2				DRAWING APPROVAL J. WINDHAM 2006-01-24		SIZE C	CAGE CODE 19200	DWG NO. 12973131
RA		12973132	M16A4	DESIGN APPROVAL T. KARCHER 2006-01-24		SCALE 4.000	UNIT WT. 0.00194	SHEET 1 OF 1
BH		NEXT ASSY	USED ON					
RH		APPLICATION						



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100.  
B. ASME Y14.5M-1994.  
C. MIL-W-13855.

2. MATERIAL: NYLON 66, INJECTION MOLDING MATERIAL, 20% TO 24% GLASS-FILLED PER ASTM D 4066 PA0160 G22. COLOR SHALL BE APPROXIMATELY COLOR NO. 37038 BUT NOT LIGHTER THAN COLOR NO. 36118 OF FED-STD-595.

3. SURFACE FINISH: EXTERNAL, EXPOSED SURFACES SHALL HAVE A DULL MATTE TEXTURE. OTHER SURFACES OPTIONAL.

4. REMOVE ALL GATE AND FLASH TO WITHIN .005 OF SURFACE.

5. APPLY MARKINGS AS SHOWN .075 APPROX HIGH AND .010 APPROX DEEP IN APPROXIMATE LOCATION SHOWN.

6. UNLESS OTHERWISE SPECIFIED, BREAK EDGES AND CORNERS R.025 MAX, FILLET R.025 MAX.

7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

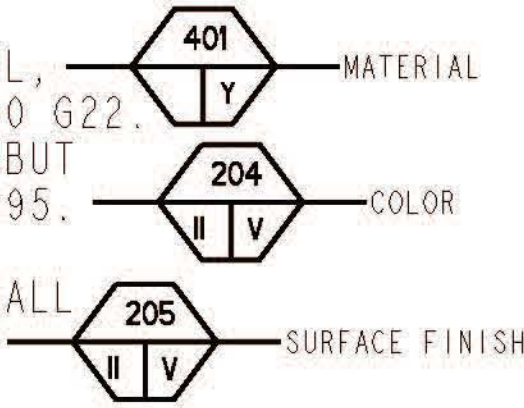
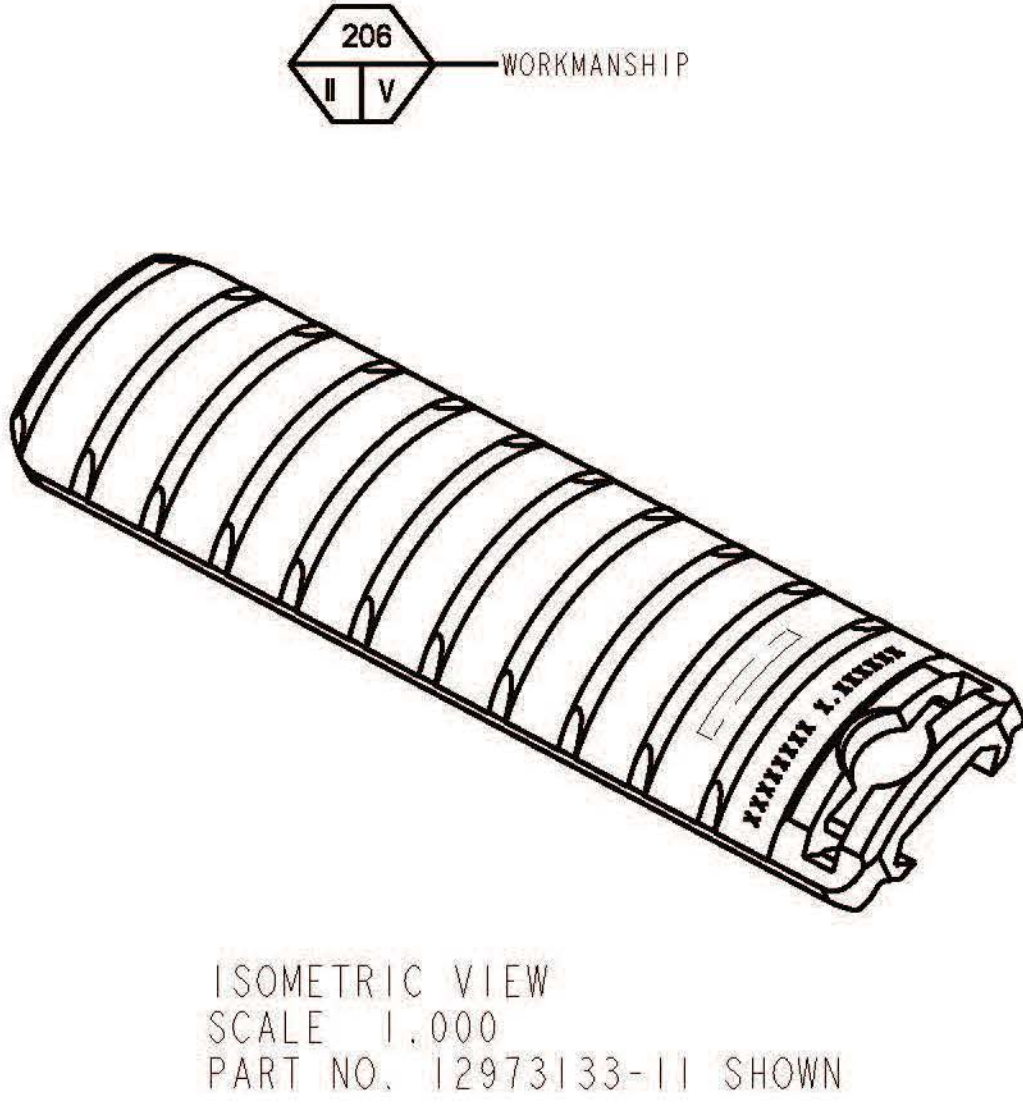


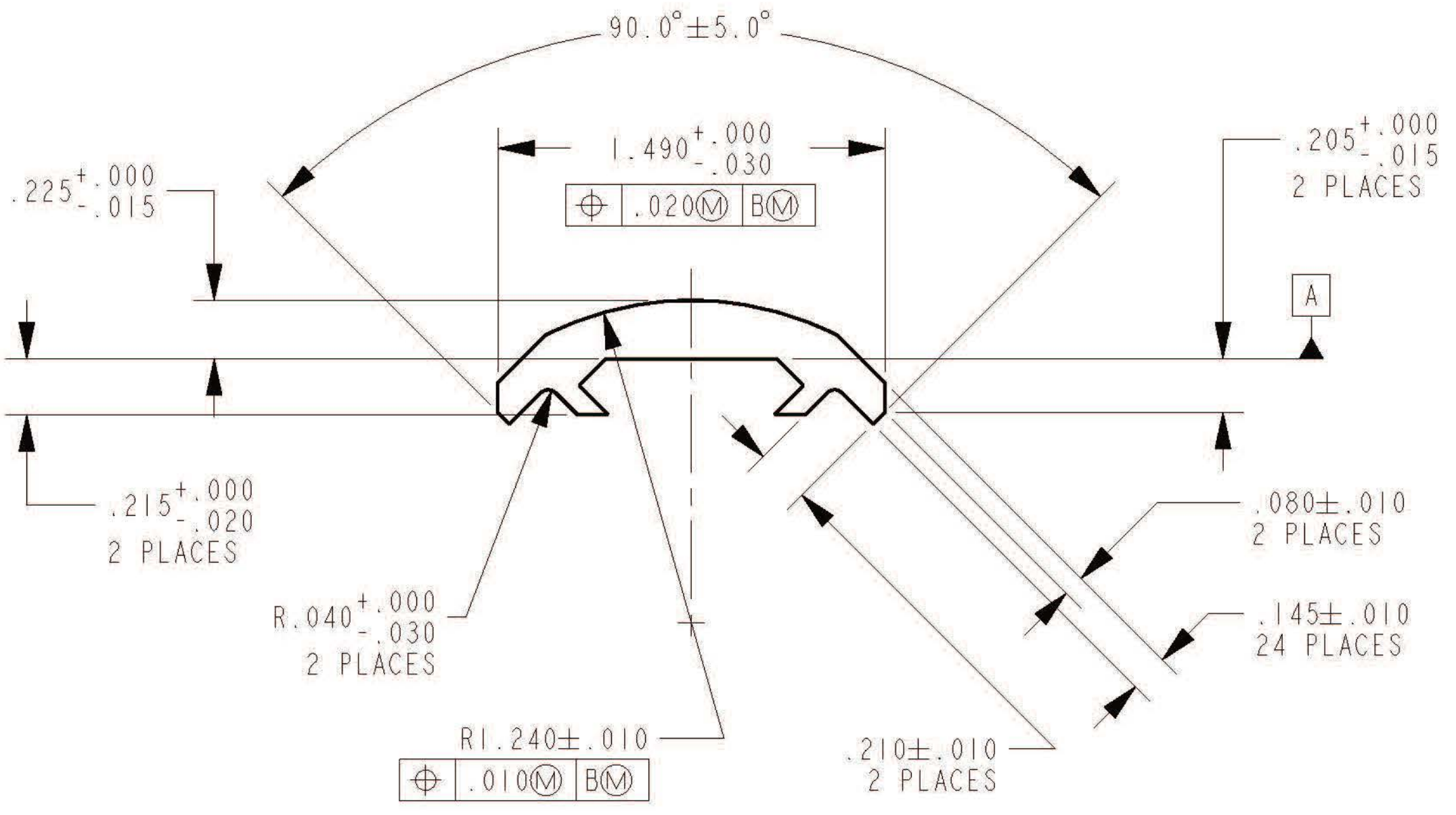
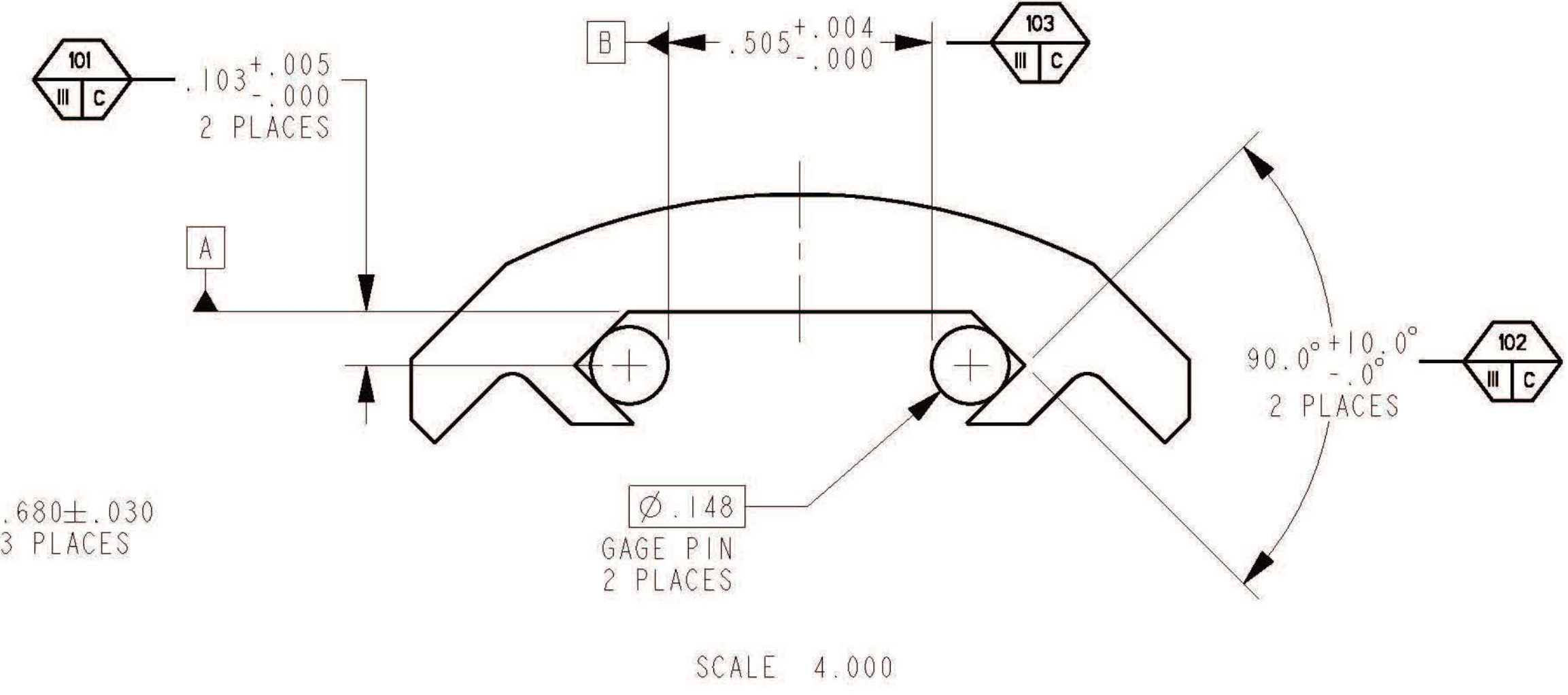
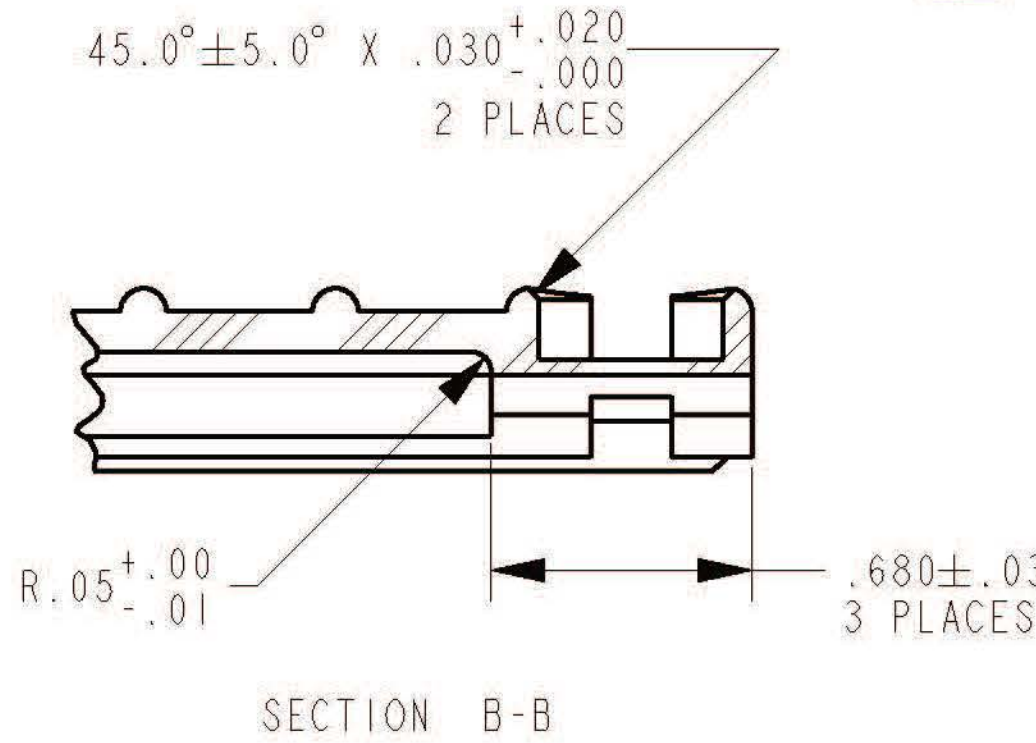
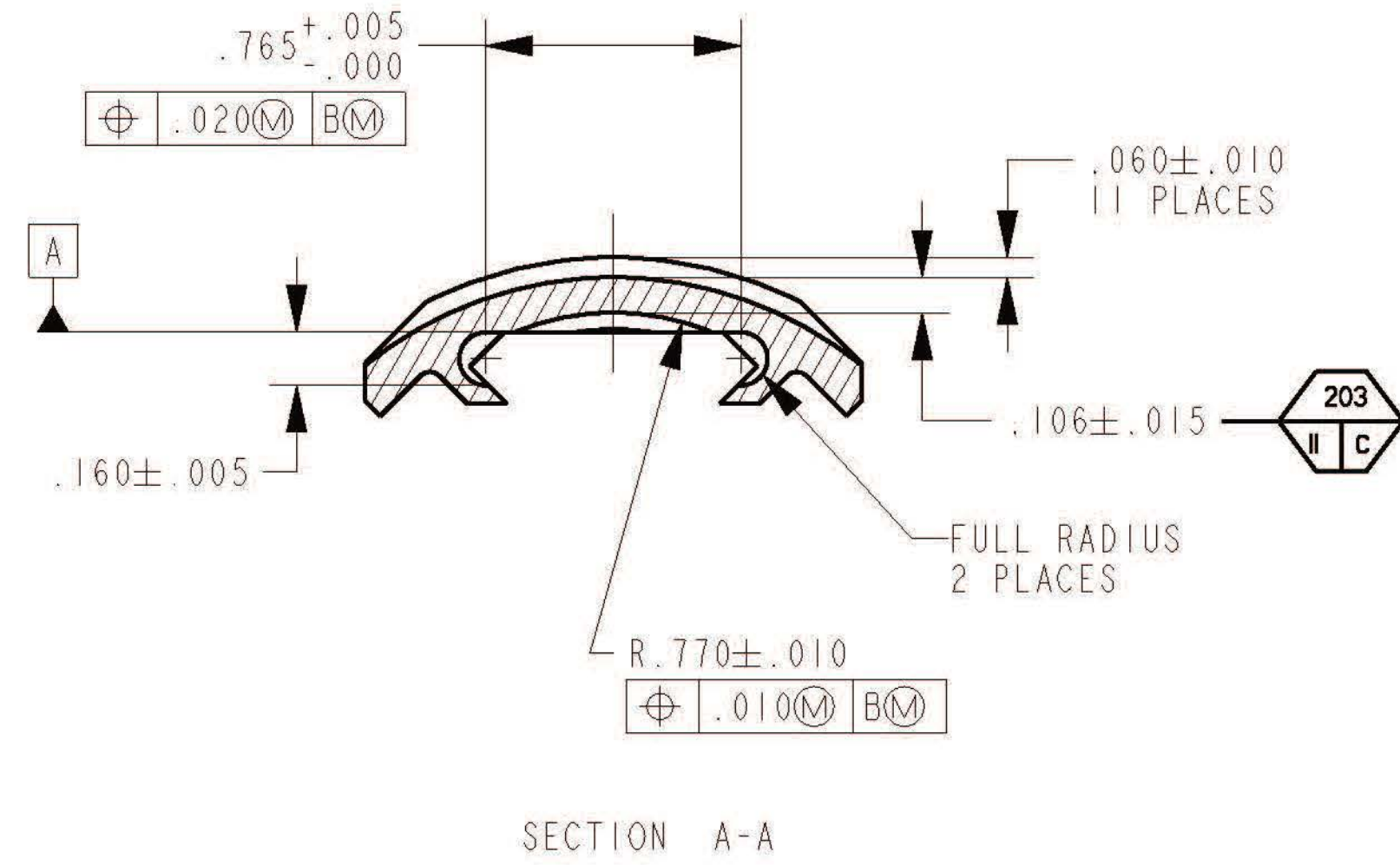
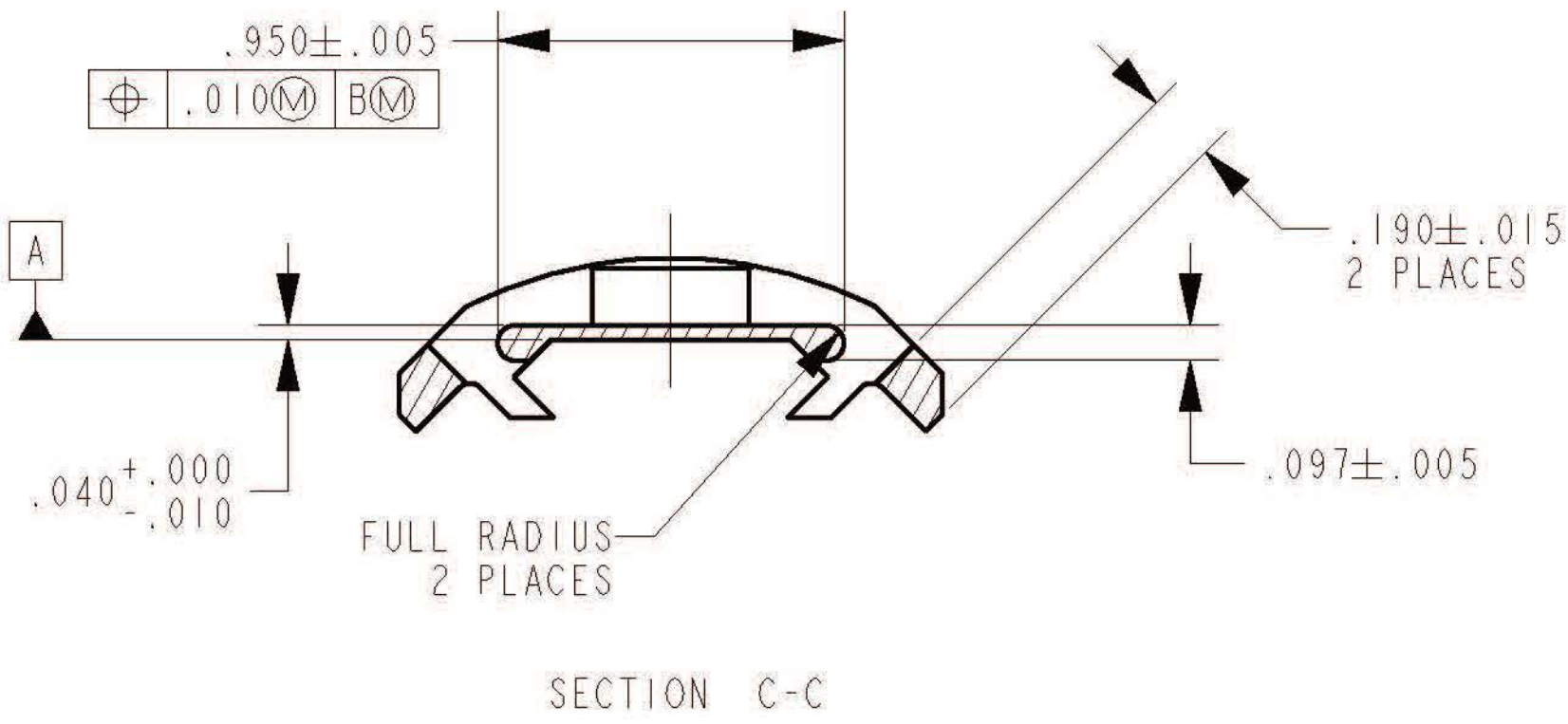
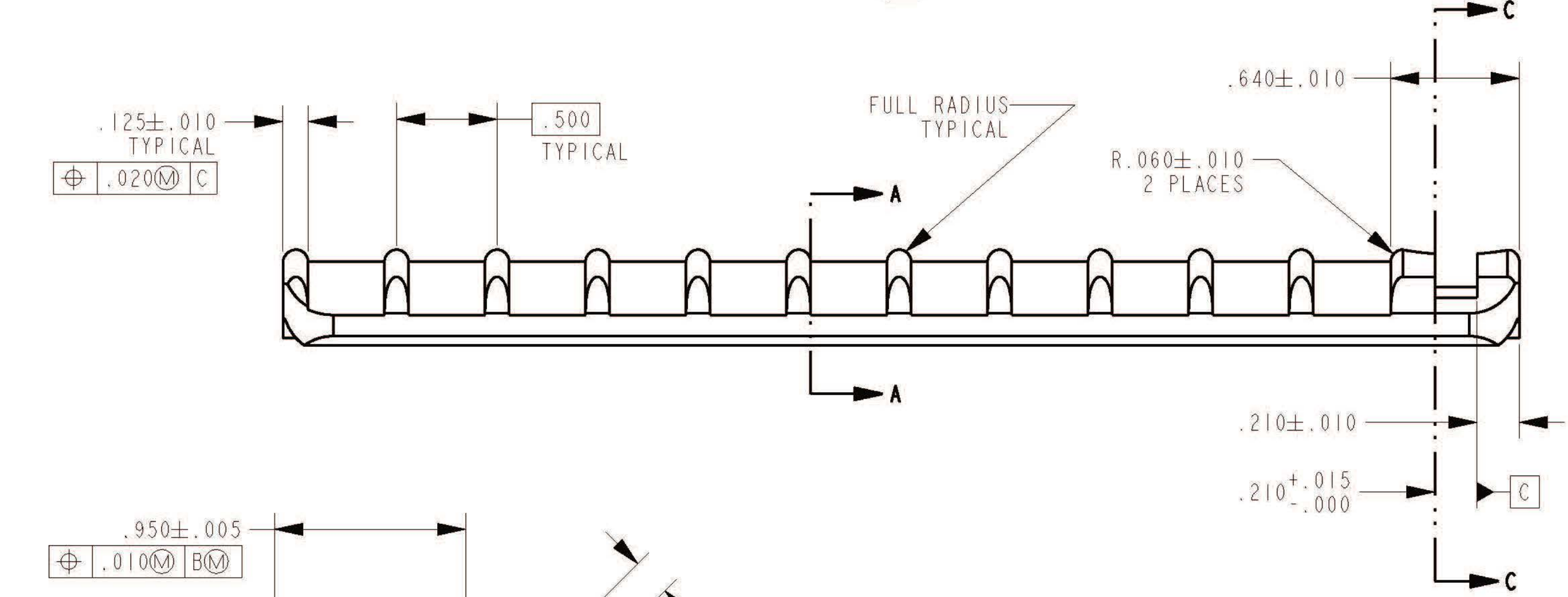
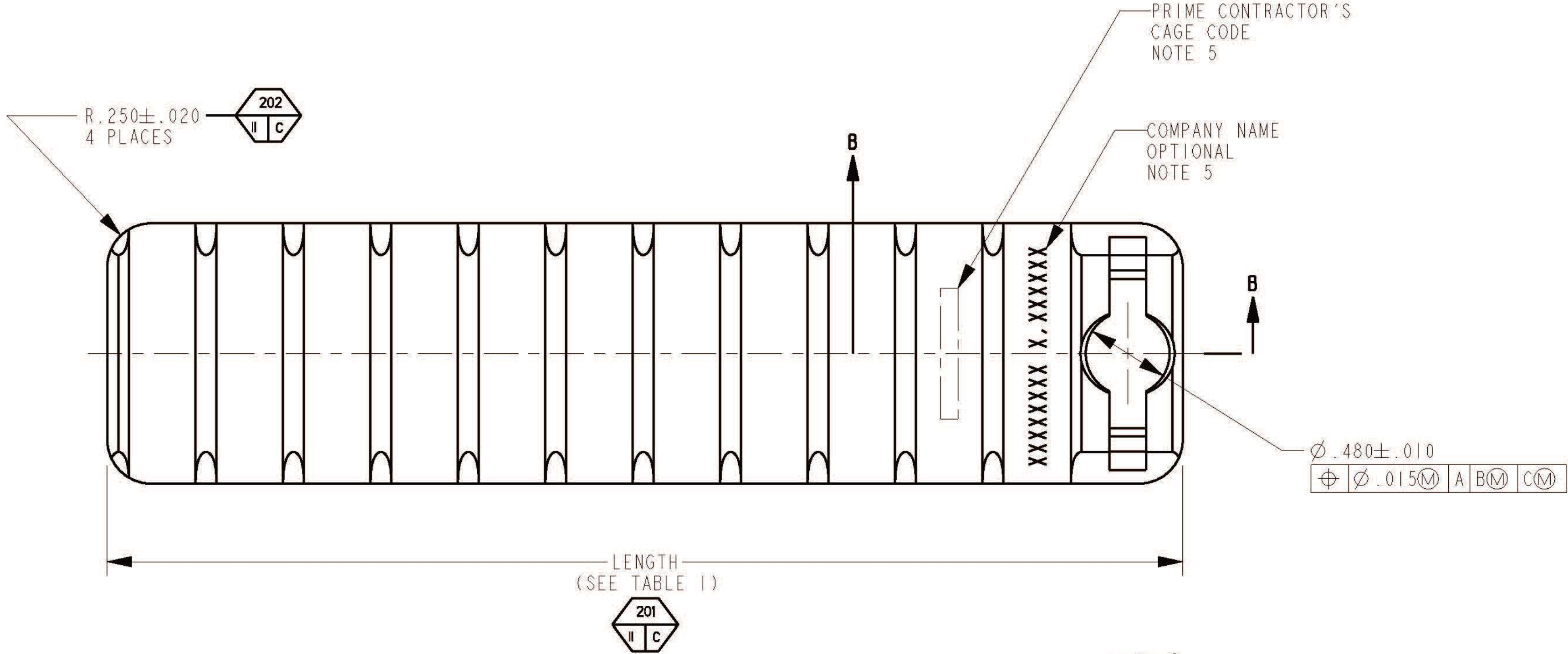
TABLE 1			
PART NO.	LENGTH	NEXT ASSY	NO. OF RIBS
12973133-11	6.150±.020	12973132	11
12973133-9	5.480±.020	12973134	9
12973133-6	3.900±.020	12973135	6
12973133-5	3.470±.020	12973136	5
12973133-4	2.650±.020	12973137	4
12973133-2	1.650±.020	12973138	2



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PART NO. (SEE TABLE 1)

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES				TOLERANCES ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN		DATE (YEAR-MO-DA) 1997-11-13		RAIL COVER		
						CHECKER D. COLLUM		ENGINEER A. FOLTZ				
YP			M4A1	THIRD ANGLE PROJECTION		ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG				
TS			M4			DRAWING APPROVAL J. WINDHAM 2006-01-24		DESIGN APPROVAL T. KARCHER 2006-01-24		SIZE F	CAGE CODE 19200	DWG NO. 12973133
EL2			M16A4									SCALE 2.000
RA		(SEE TABLE 1)										
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY R. BROWN						
RH		APPLICATION										

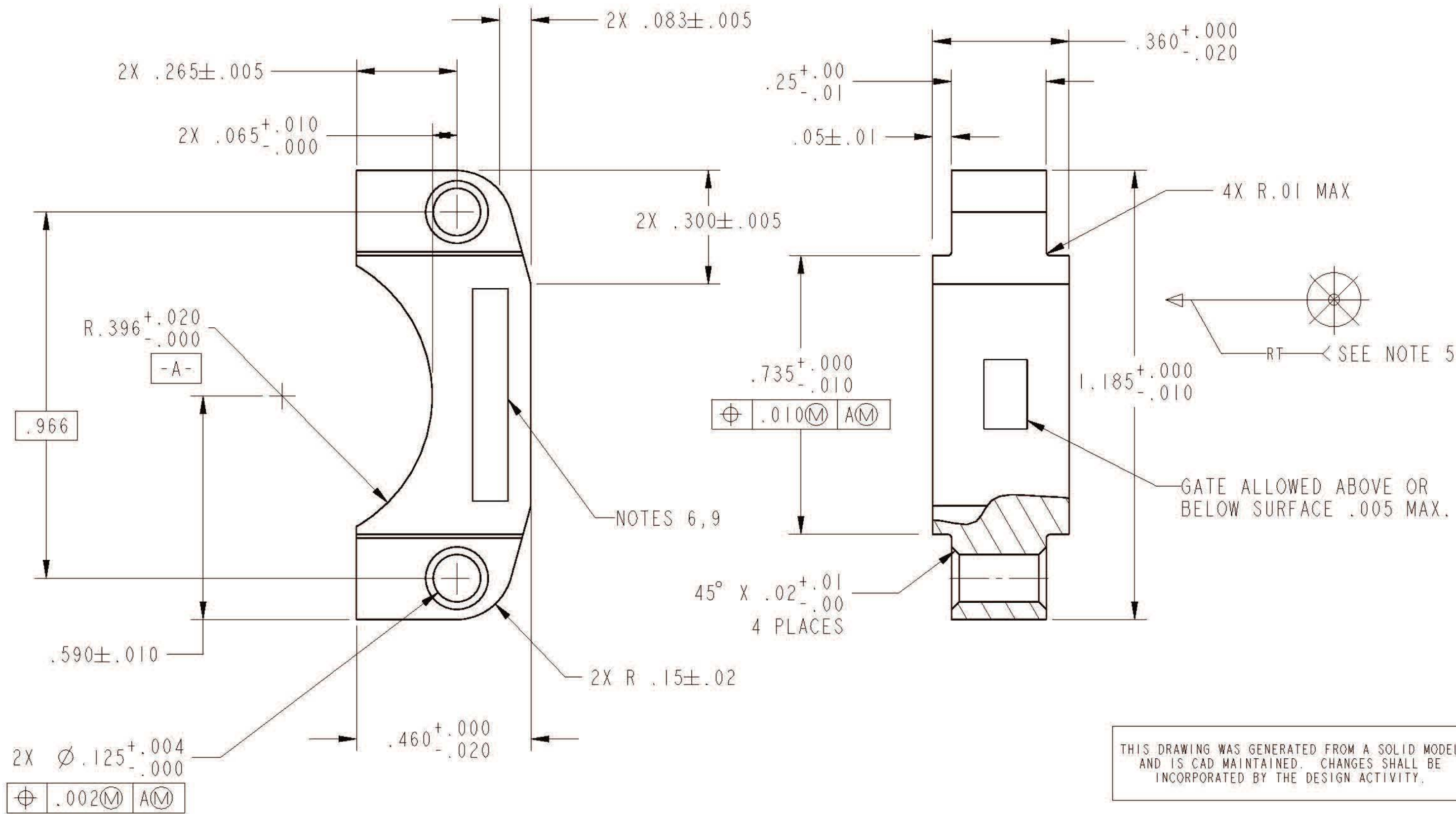


NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. ASME Y14.100  
B. ASME Y14.5M-1994  
C. MIL-W-13855
2. MATERIAL:  
A-FOR WROUGHT MATERIAL:  
STEEL, COMP 4340, SAE-AMS-6484  
OR SAE-AMS-6359.  
B-FOR INVESTMENT CASTING:  
STEEL, COMP 1C 4340, MIL-S-22141.  
C.FOR METAL INJECTION MOLDED TYPE:  
STEEL, MIM-4340 PER 13011863.
3. ALL EDGES SHALL BE BROKEN .005+.010  
UNLESS OTHERWISE SPECIFIED.
4. HEAT TREATMENT:  
A-FOR WROUGHT MATERIAL:  
HEAT AT 1450°F TO 1550°F. OIL  
QUENCH. TEMPER 950°F FOR  
1 HOUR TO HARDNESS SPECIFIED  
B-FOR INVESTMENT CASTING:  
HEAT AT 1550°F TO 1600°F. OIL  
QUENCH. TEMPER 1000°F FOR  
1 HOUR TO HARDNESS SPECIFIED  
HEAT TREATMENT METHOD IS FOR  
GUIDANCE ONLY EXCEPT TEMPERING  
TIME SHALL NOT BE REDUCED BELOW  
THAT SPECIFIED.
5. CASTINGS SHALL BE INSPECTED PER  
AMS 2175 AND THEREBY SHALL BE  
DESIGNATED AS CLASS 4, GRADE C.
6. INSCRIBE PART NO. APPROXIMATELY  
WHERE SHOWN .06 HIGH X .015 DEEP  
OR RAISED PER MIL-STD-130.
7. SURFACE FINISH 125 UNLESS OTHERWISE  
SPECIFIED.
8. FINAL PROTECTIVE FINISH:  
FINISH 5.3.1.2 OF MIL-STD-171.
9. APPLY PRIME CONTRACTOR'S CAGE  
CODE THIS AREA, OPPOSITE SIDE,  
.06 HIGH X .015 DEEP OR RAISED  
PER MIL-STD-130.
10. QUALITY ASSURANCE PROVISION  
REQUIREMENTS PER DRAWING NUMBER  
12993884 APPLY.

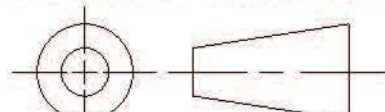
DISTRIBUTION STATEMENT A.  
APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.

REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR L9S2036	1999-08-17	HJS
N/A	A	NOR L0S2025 / 2000-09-14	2000-10-20	HJS
N/A	B	NOR LIS2102 / 2001-08-23	2001-09-26	RLV
-	C	NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	D	NOR L2S3040 / 2002-07-03	2002-09-20	BAC
B	E	NOR L04S3039 / 2004-07-20	2004-09-10	RLV
C	F	NOR L06S3020 / 2006-03-29	2006-05-02	BMG
D	G	NOR L06S9051 / 2006-04-11	2006-07-19	BMG
E	H	NOR L11S3031 / 2011-04-14	2011-04-21	RLV



THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12991254

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
MECHANICAL PROPERTIES				TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		DRAWN BY J. WINDHAM		DATE(YEAR-MO-DA) 1999-05-26		BAR, LOCKING		
						CHECKER J. WINDHAM		ENGINEER J. WINDHAM				
						ENGINEER L. KO		QUALITY ENGINEER L. CICHUCKI				
YP		13005895		THIRD ANGLE PROJECTION		DRAWING APPROVAL L. BRUNTON 2001-11-16		SIZE C		CAGE CODE 19200		
TS		12997148				DESIGN APPROVAL R. ELBE 2001-11-16		DWG NO. 12991254				
EL2		12991506	M4A1									
RA		12972680	M4									
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY S. WINTERS						
RH	C38-42	APPLICATION						SCALE 4/1		UNIT WT. 0.034		
								SHEET 1 OF 1				



## NOTES

## 1. APPLICABLE SPECIFICATIONS AND STANDARDS:

- A. ASME Y14.5M-1994  
B. ASME Y14.1  
C. MIL-STD-100

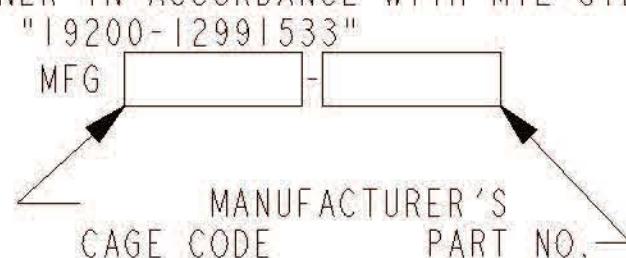
2. MATERIAL: STEEL, CORROSION RESISTANT, 17-4, (UNS S17400),  
CONDITION A PER ASTM A 564. HARDNESS: ROCKWELL C 25 TO 35  
OR EQUIVALENT.

3. PROTECTIVE FINISH: FINISH 3.3.4 OF MIL-STD-171.  
DIMENSIONAL LIMITS APPLY BEFORE APPLICATION OF  
PROTECTIVE FINISH. SURFACE FINISH: 125  
EXCEPT AS NOTED.

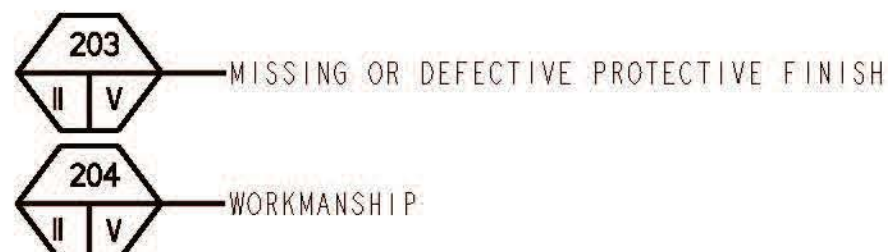
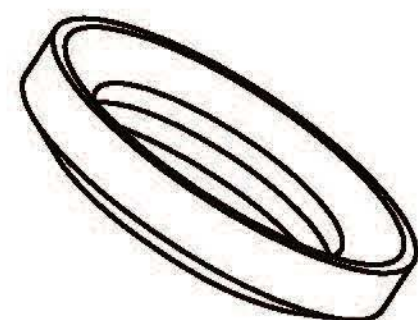
4. BREAK EDGES  $.005^{+.015}_{-.000}$  EXCEPT AS NOTED.

5. IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF  
SUPPLY HEREON IS NOT TO BE CONSTRUED AS A  
GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY  
AS A SOURCE OF SUPPLY FOR THE ITEM(S).

6. ITEM IDENTIFICATION: APPLY THE FOLLOWING MARKING  
TO CONTAINER IN ACCORDANCE WITH MIL-STD-129:



7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING NUMBER 12993884 APPLY.

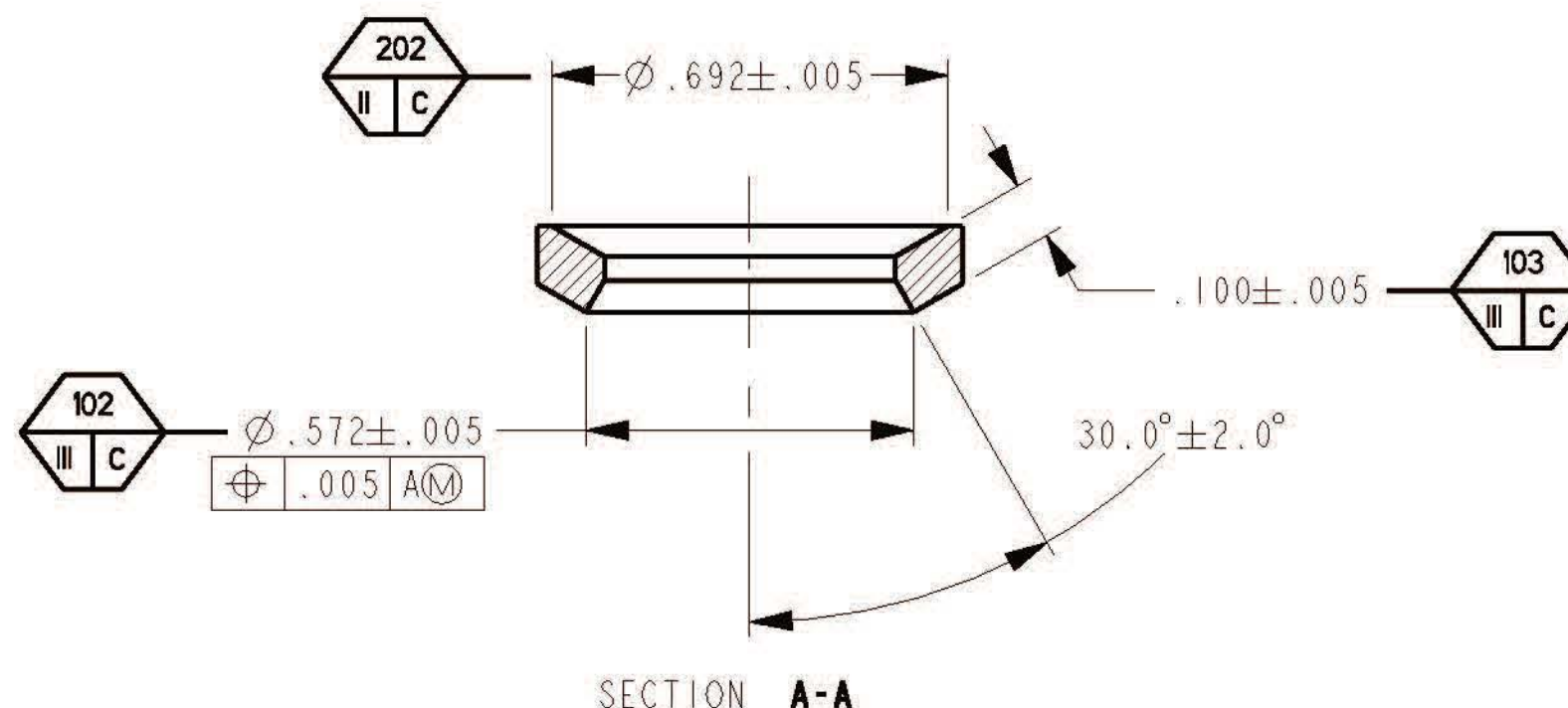
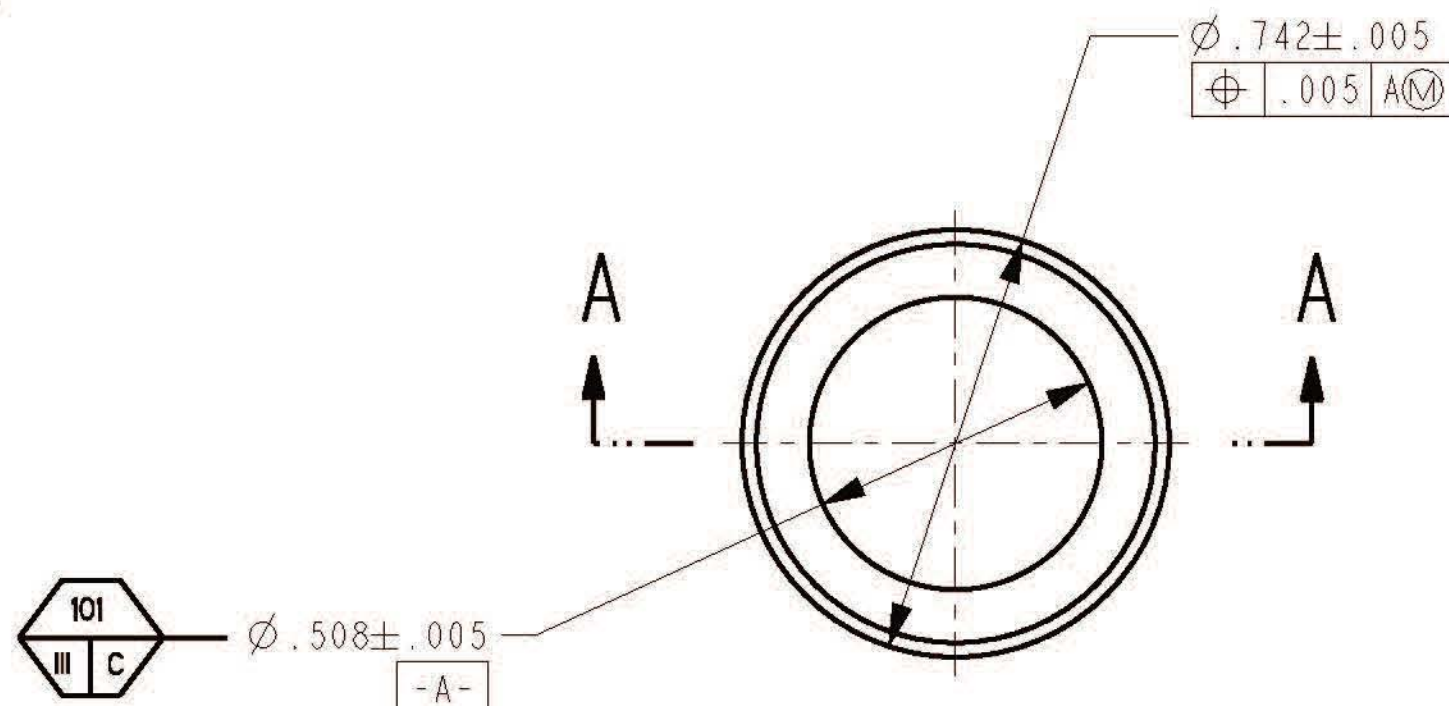
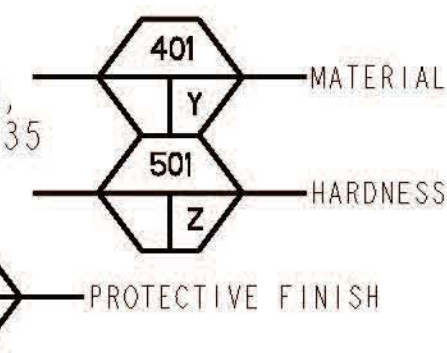


SUGGESTED SOURCE(S) OF SUPPLY			
PART NO.	VENDOR		VENDOR PART NO.
	ADDRESS	CAGE CODE	
12991533	CAPCO, INC. 1328 WINTERS AVENUE GRAND JUNCTION, CO 81502	04099	M4-00-107

DISTRIBUTION STATEMENT A.  
APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.

## REVISIONS

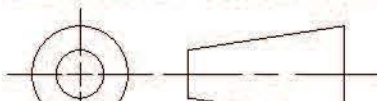
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	C	REVISED/REDRAWN WITH CHANGE NOR LIS3057 / 2001-11-19	2002-06-12	JJW
A	D	NOR L07S3129 / 2008-01-08	2008-02-06	BMG
B	E	NOR L10S3085 / 2010-07-29	2010-09-20	JTD



THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12991533

## VENDOR ITEM DRAWING

PMIC			M231	DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000													
		9327227	M4A1									UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES									
		MECHANICAL PROPERTIES				12997149	M4	TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005		CONTRACTOR				WASHER, CRUSH							
12972680	M16A4																				
12973010	M16A3			THIRD ANGLE PROJECTION		DRAWN BY				DATE(YEAR-MO-DA)											
9349050	M16A2					J. WINDHAM				2000-04-19											
8448522	M16A1					CHECKER				ENGINEER											
YP		8448601	M16			J. WINDHAM		J. WINDHAM													
TS		MATL ENGR				ENGINEER		QUALITY ENGINEER													
EL2						L. KO		E. SESE													
RA				DRAWING APPROVAL																	
BH		NEXT ASSY		USED ON		L. BRUNTON		2001-11-16		SIZE		CAGE CODE		DWG NO.							
RH		APPLICATION		MODELED BY		DESIGN APPROVAL		R. ELBE		2001-11-16		C		19200		12991533					
SCALE												3.000		UNIT WT.		0.00680		SHEET		1 OF 1	







D

C

B

A

D

C

B

A

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

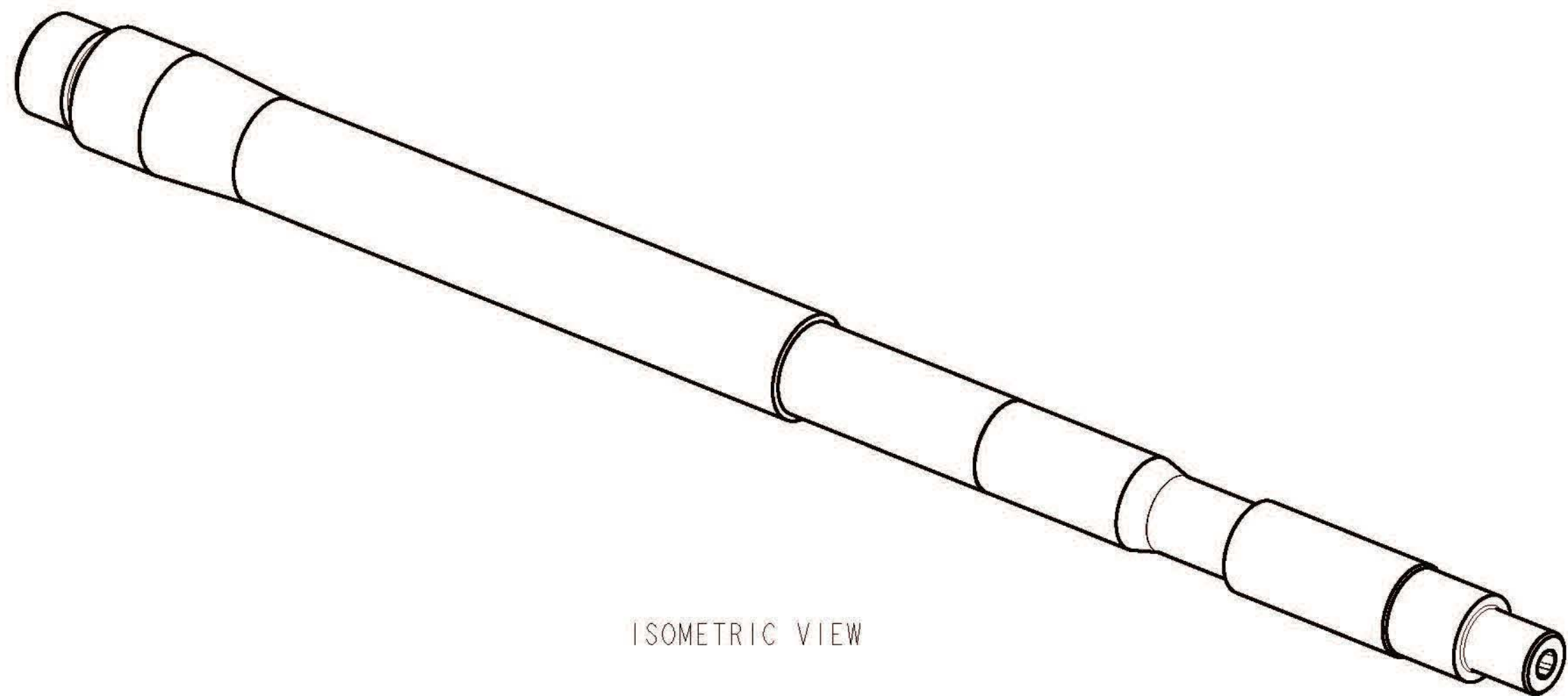
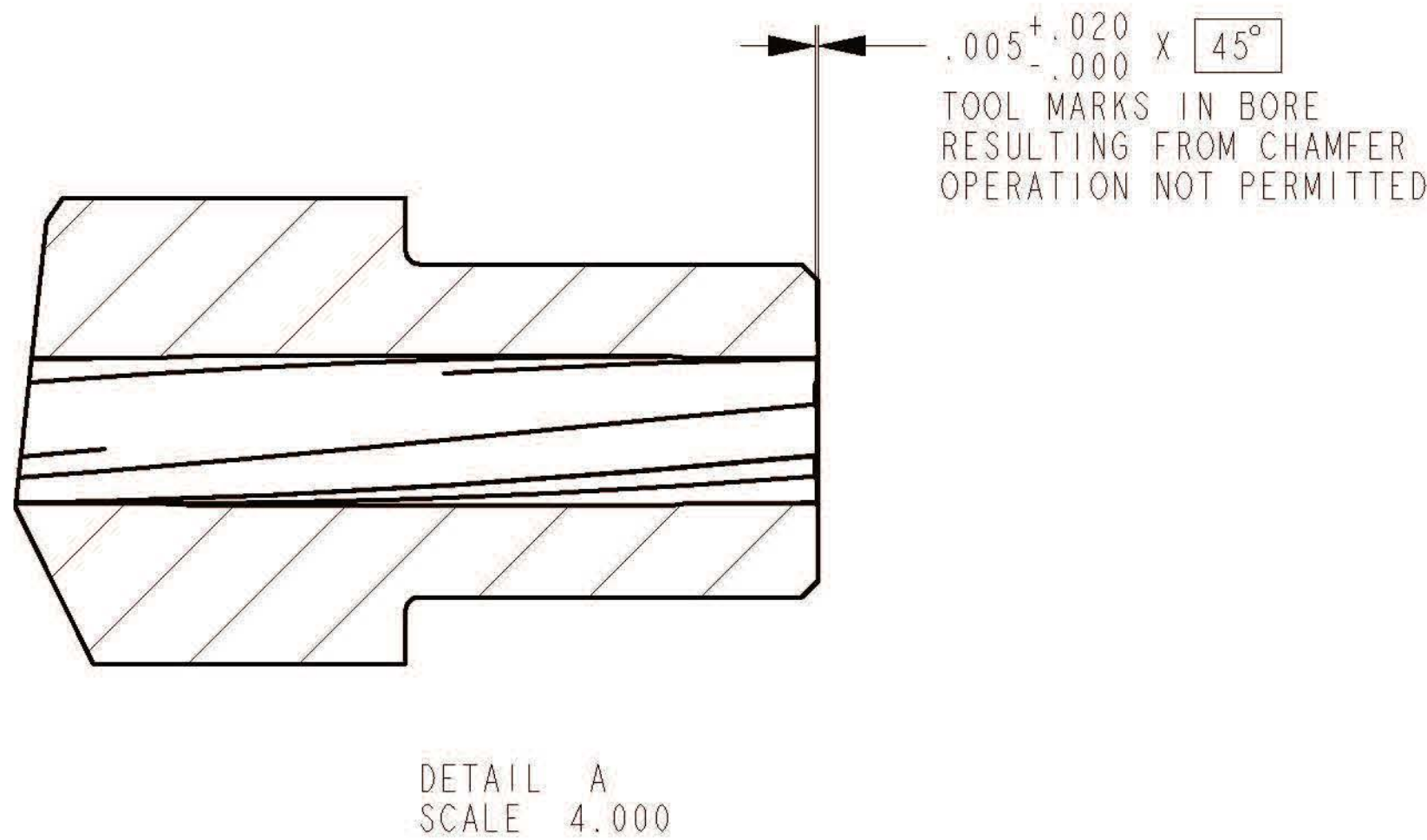
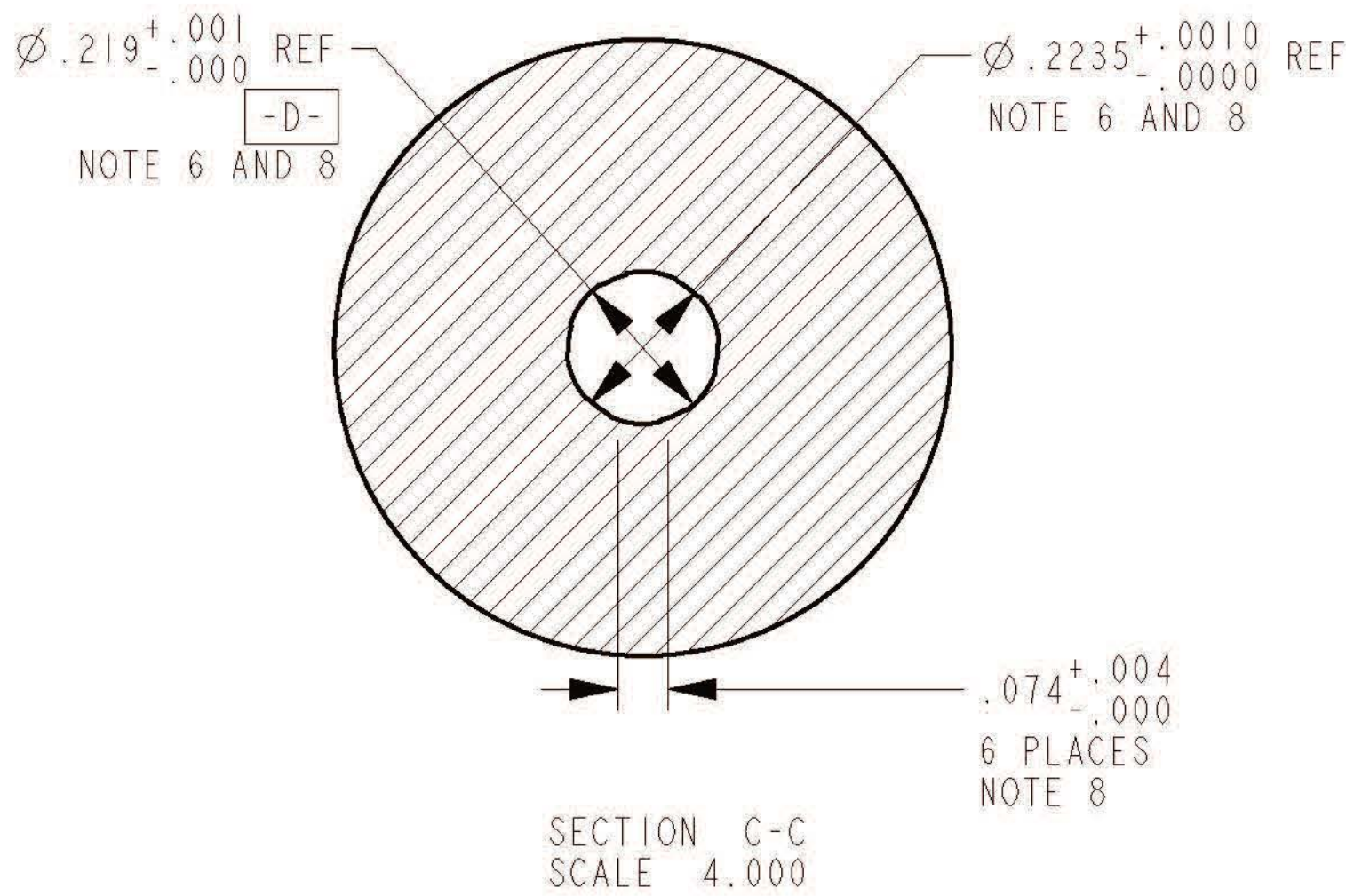
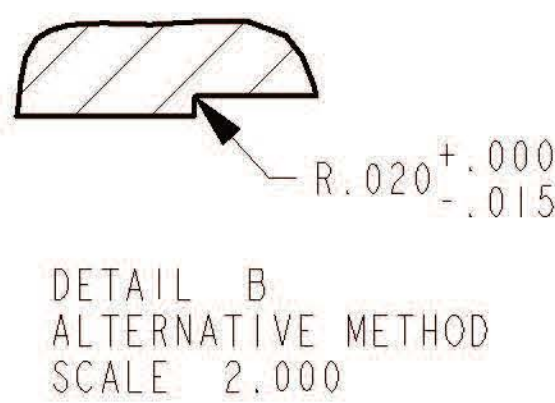
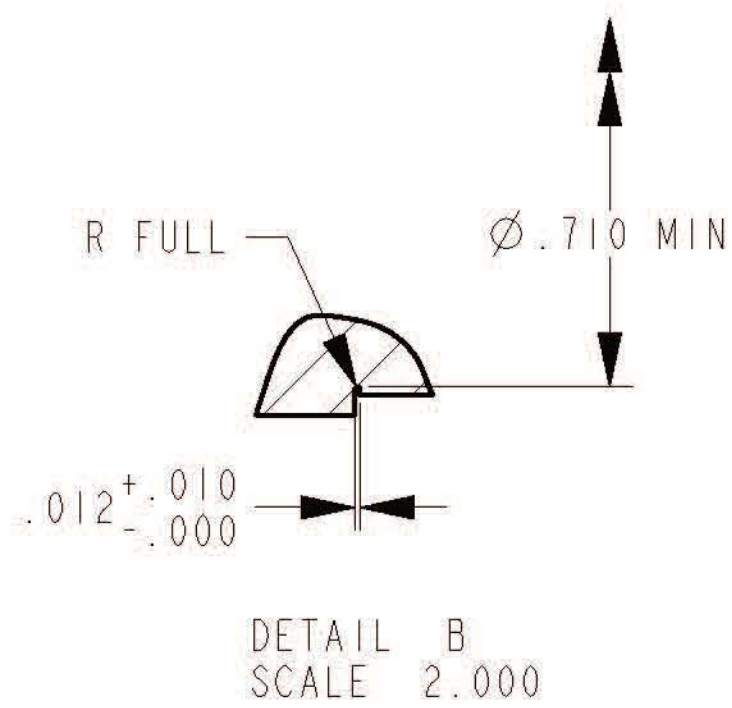
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DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

REVISIONS

MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	B	NOR LIS3068 / 2001-12-26	2002-03-21	JJW
A	C	NOR L05S3081 / 2005-10-20	2005-11-08	BMG
B	D	NOR L10S3093 / 2010-08-13	2010-09-08	AMW



ISOMETRIC VIEW

THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12991849

DESIGN ACTIVITY  
US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

BARREL (HEAVY VARIANT)

SIZE D CAGE CODE 19200 DWG NO. 12991849

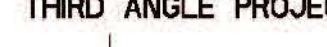
SCALE 1.000 UNIT WT. 1.521 SHEET 2 OF 2

DISTRIBUTION STATEMENT F; FURTHER DISTRIBUTION ONLY AS DIRECTED BY US ARMY ARDEC, AMSTA-AR-CCL-F, ROCK ISLAND, IL; 1993-09-14.

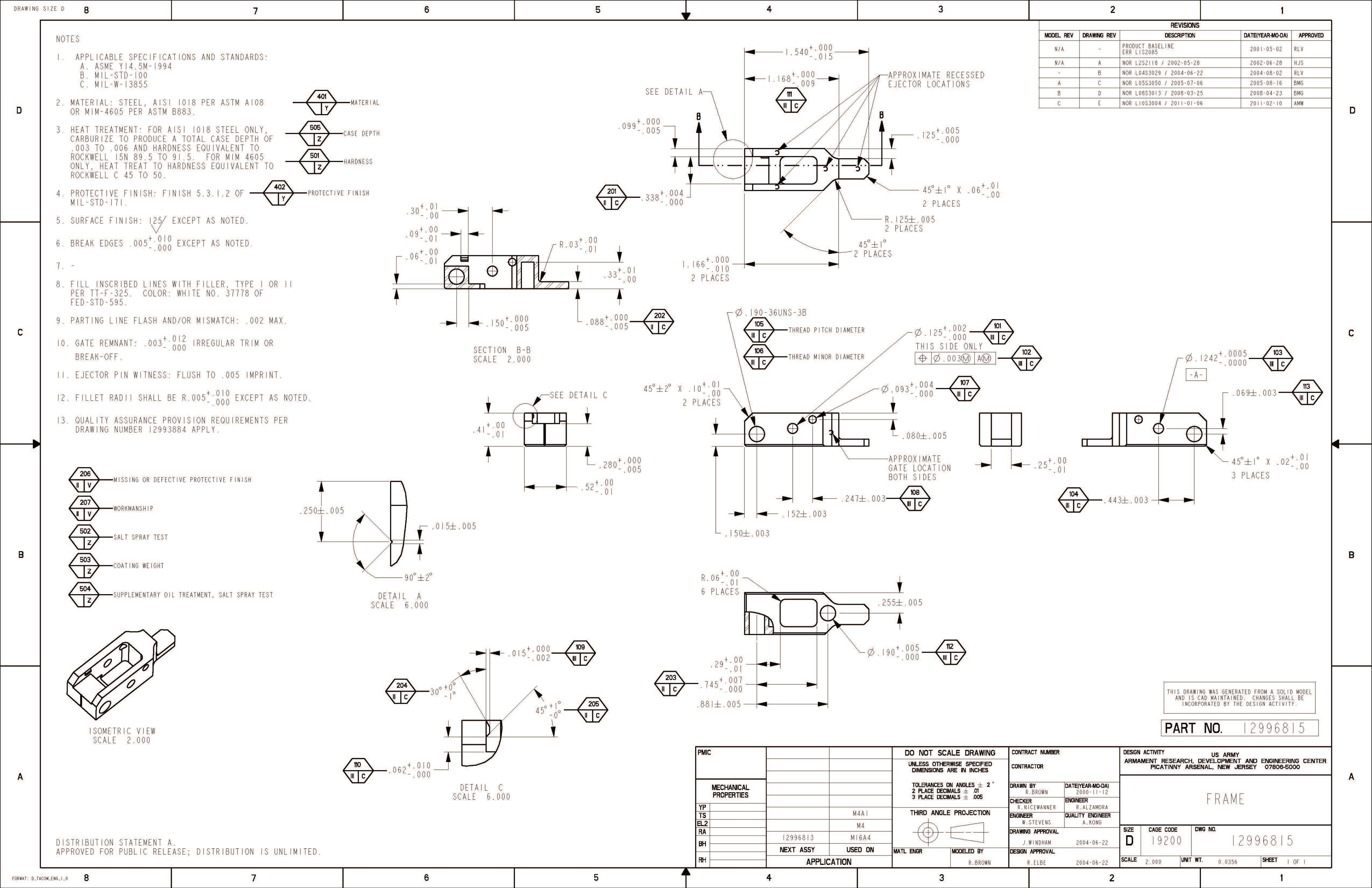


NUMBER	DESIGN ACTIVITY			US ARMY		
DR	ARMAMENT RESEARCH, DEVELOPMENT AND			ENGINEERING CENTER		
	PICATINNY ARSENAL, NEW JERSEY			07806-5000		
OWN	DATE(YEAR-MO-DA) 2000-11-12			APERTURE		
LUM	ENGINEER G. HOUTSMA					
EVENS	QUALITY ENGINEER A. RONG					
APPROVAL						
DIAM	2004-06-22			12996814		
ROVAL						
BE	2004-06-22					
SCALE				3.000	UNIT WT.	
				0.019	SHEET 1 OF 1	

SIZE <b>D</b>	CAGE CODE 19200	DWG NO. 12996814
SCALE 3.000	UNIT WT. 0.019	SHEET 1 OF 1

TP		M4A1		
TS		M4		
EL2	12996813	M16A4		
RA				
BH	NEXT ASSY	USED ON	MATL ENGR	MODELED BY
RH	APPLICATION			R. BROWN





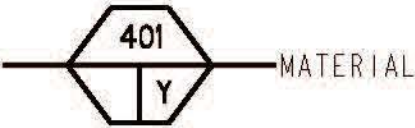


NOTES

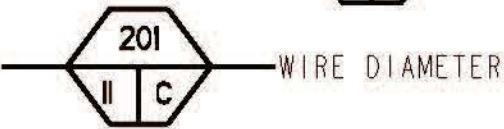
1. APPLICABLE SPECIFICATIONS AND STANDARDS:

- A. MIL-STD-100
- B. ASME Y14.5M-1994
- C. MIL-W-13855

2. MATERIAL: STAINLESS STEEL, TYPE 302 PER  
ASTM A 313.



3. WIRE DIAMETER:  $\varnothing 0.030 \pm 0.002$ .



4. DIRECTION OF HELIX: RIGHT OR LEFT.

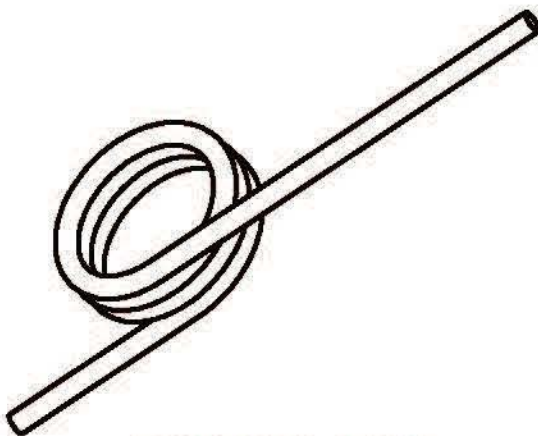
5. (SPRING RATE: .0061 LBS-IN/DEG.)

6. BREAK EDGES  $.005^{+.010}_{-.000}$  EXCEPT AS NOTED.

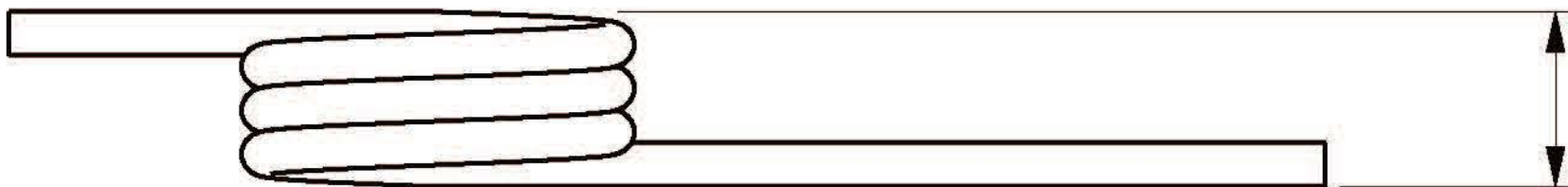
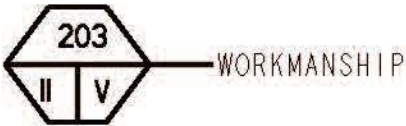
7. IDENTIFICATION OF THE SUGGESTED SOURCE(S)  
OF SUPPLY HEREON IS NOT TO BE CONSTRUED  
AS A GUARANTEE OF PRESENT OR CONTINUED  
AVAILABILITY AS A SOURCE OF SUPPLY FOR  
THE ITEM(S).

8. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.

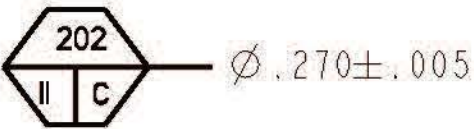
9. TYPICALLY ALTERED FEATURE.



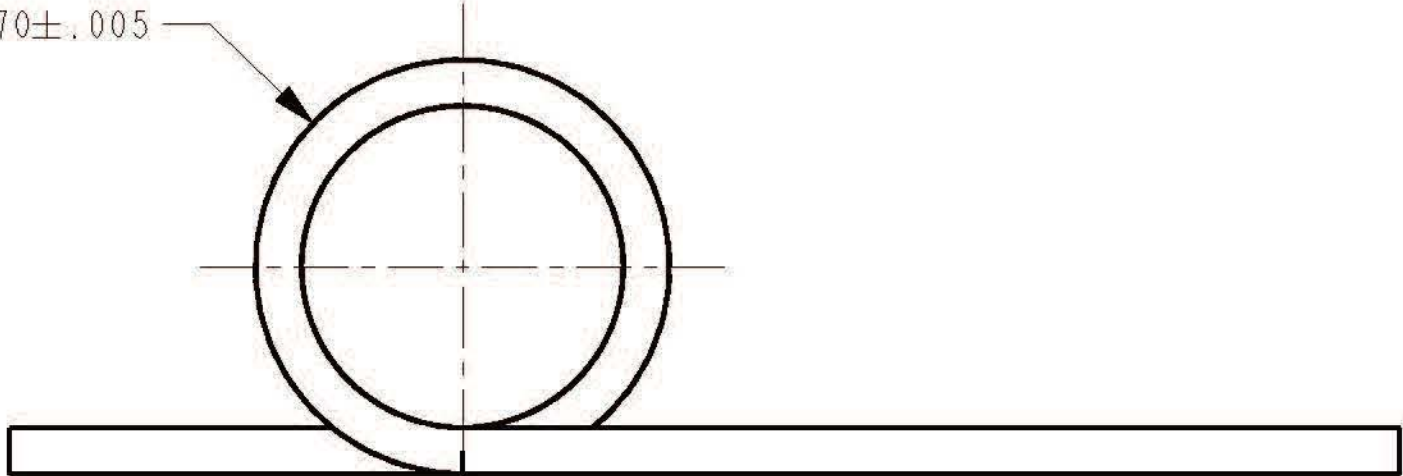
ISOMETRIC VIEW  
SCALE 4.000



$.120^{+.000}_{-.010}$



$\varnothing .270 \pm .005$



$.295^{+.000}_{-.010}$   
NOTE 9

$.61^{+.00}_{-.04}$   
NOTE 9

SUGGESTED SOURCE(S) OF SUPPLY

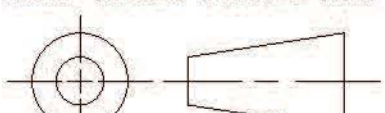
PART NO.	VENDOR		VENDOR PART NO.
	ADDRESS	CAGE CODE	
12996816	ASSOCIATED SPRING RAYMOND 370 W. DUSSEL DRIVE - SUITE A MAUMEE, OH 43537-1604	N/A	T030-180-172-R OR T030-180-172-L

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

VENDOR ITEM DRAWING

PART NO. 12996816

DISTRIBUTION STATEMENT A.  
APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.

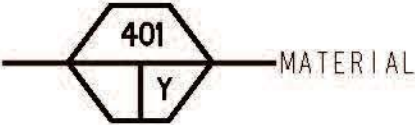
PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
				TOLERANCE ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 2000-11-12		SPRING, TORSION	
MECHANICAL PROPERTIES				THIRD ANGLE PROJECTION		CHECKER R. NICEWANNER		ENGINEER R. ALZAMORA			
YP			M4A1			ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG			
TS			M4			DRAWING APPROVAL J. WINDHAM		2004-10-26			
EL2			M16A4			DESIGN APPROVAL					
RA			M16A3					SIZE C	CAGE CODE 19200	DWG NO. 12996816	
BH		12996813									
		NEXT ASSY	USED ON	MATL ENGR		MODELED BY R. BROWN					
RH		APPLICATION									
								SCALE	8.000	UNIT WT. 0.000667	SHEET 1 OF 1



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. MIL-STD-100  
B. ASME Y14.5M-1994  
C. MIL-W-13855

2. MATERIAL: STAINLESS STEEL, TYPE 302, PER  
ASTM A313.



3. (STOCK THICKNESS .0086.)

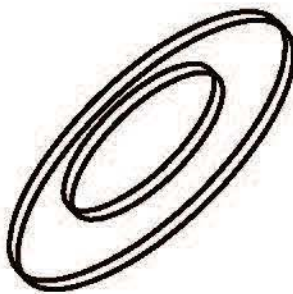
4. BREAK ALL SHARP EDGES .005<sup>+</sup>.010<sub>-</sub>.000 EXCEPT  
AS NOTED.

5. (CALCULATED LOAD AT FLAT POSITION: 16.9 LB.)

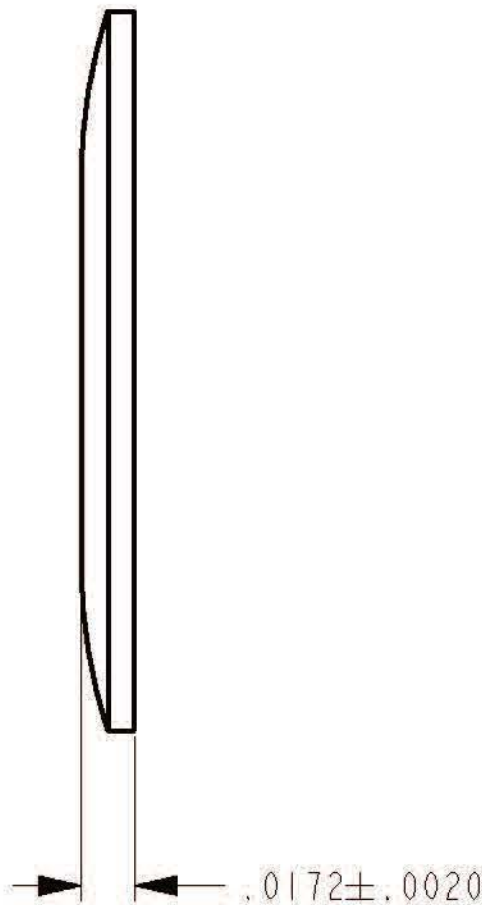
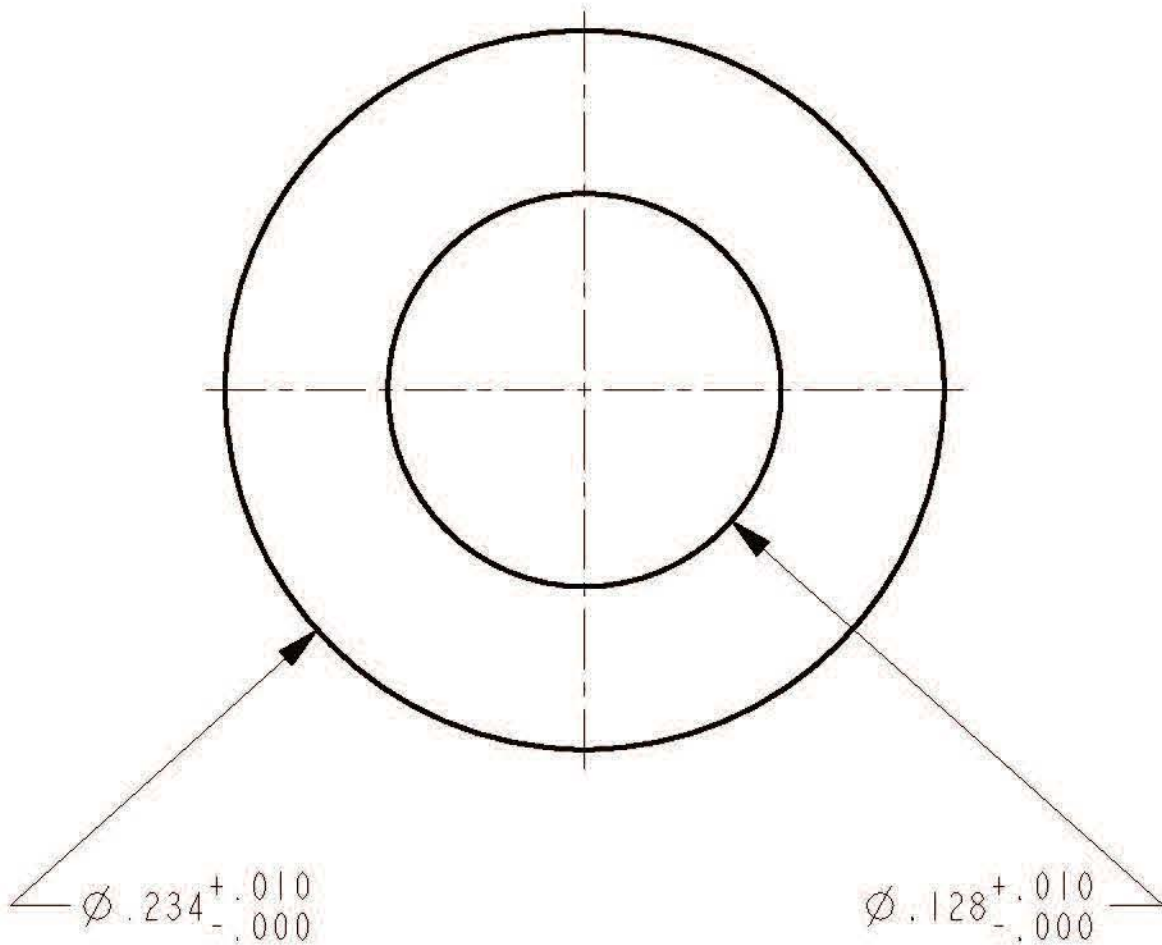
6. LOAD AT COMPRESSED HEIGHT OF .013: 9.9 LB  
TO 13.5 LB.

7. IDENTIFICATION OF THE SUGGESTED SOURCE(S)  
OF SUPPLY HEREON IS NOT TO BE CONSTRUED  
AS A GUARANTEE OF PRESENT OR CONTINUED  
AVAILABILITY AS A SOURCE OF SUPPLY FOR  
THE ITEM(S).

8. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING 12993884 APPLY.



ISO VIEW  
SCALE 8.000



REVISIONS				
MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR LIS2085	2001-05-02	RLV
N/A	A	NOR L2S2118 / 2002-05-28	2002-06-28	HJS
-	B	NOR L04S3029 / 2004-06-22	2004-08-02	RLV
A	C	NOR L04S3054 / 2004-10-26	2004-11-20	BMG
B	D	NOR L04S3082 / 2004-11-18	2004-01-04	BMG
C	E	NOR L10S3112 / 2010-10-07	2010-12-03	KMC

SUGGESTED SOURCE(S) OF SUPPLY			
PART NO.	VENDOR		VENDOR PART NO.
	ADDRESS	CAGE CODE	
12996817	ASSOCIATED SPRING RAYMOND 370 W. DUSSEL DRIVE - SUITE A MAUMEE, OH 43537-1604	N/A	B0250-009-S

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

VENDOR ITEM DRAWING

PART NO. 12996817

DISTRIBUTION STATEMENT A:  
APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.

PMIC			DO NOT SCALE DRAWING	CONTRACT NUMBER	DESIGN ACTIVITY
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
MECHANICAL PROPERTIES			TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 2000-11-12
YP		M4A1	THIRD ANGLE PROJECTION	CHECKER R. NICEWANNER	ENGINEER R. ALZAMORA
TS		M4		ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG
EL2		M16A4		DRAWING APPROVAL J. WINDHAM	2004-10-26
RA	12996813	M16A3		DESIGN APPROVAL R. ELBE	2004-10-26
BH			MATL ENGR		
RH			MODELED BY R. BROWN		
		APPLICATION			

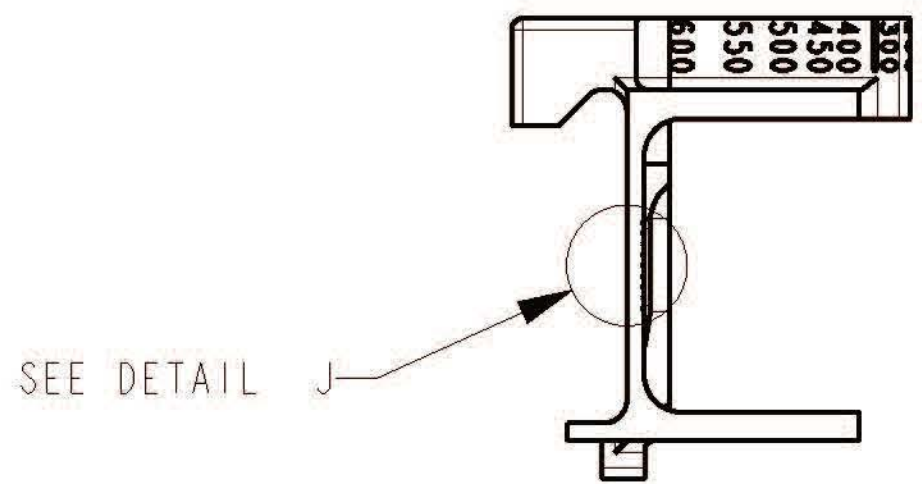
SIZE C	CAGE CODE 19200	DWG NO. 12996817
SCALE 16.000	UNIT WT. 0.000077	SHEET 1 OF 1



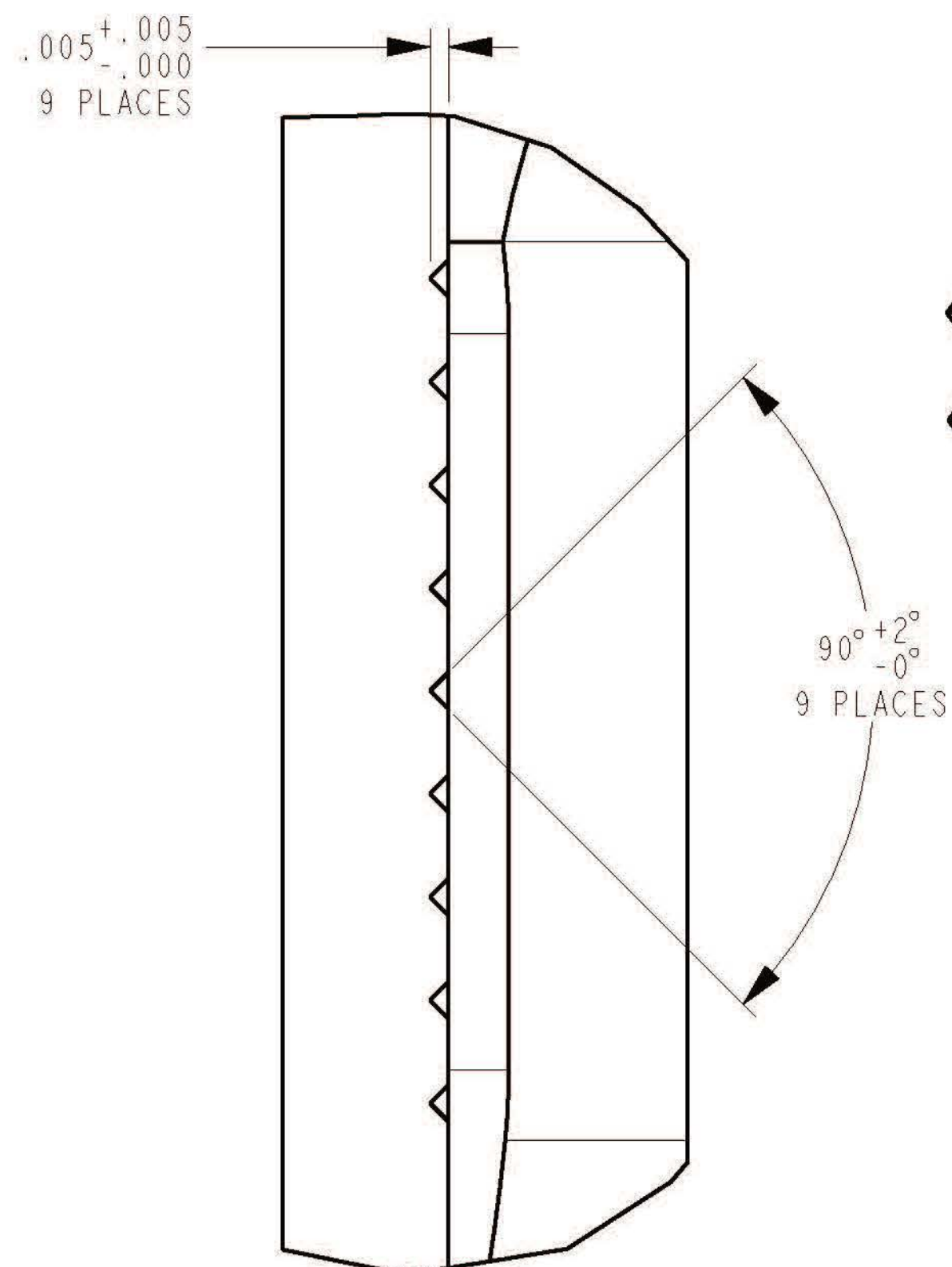
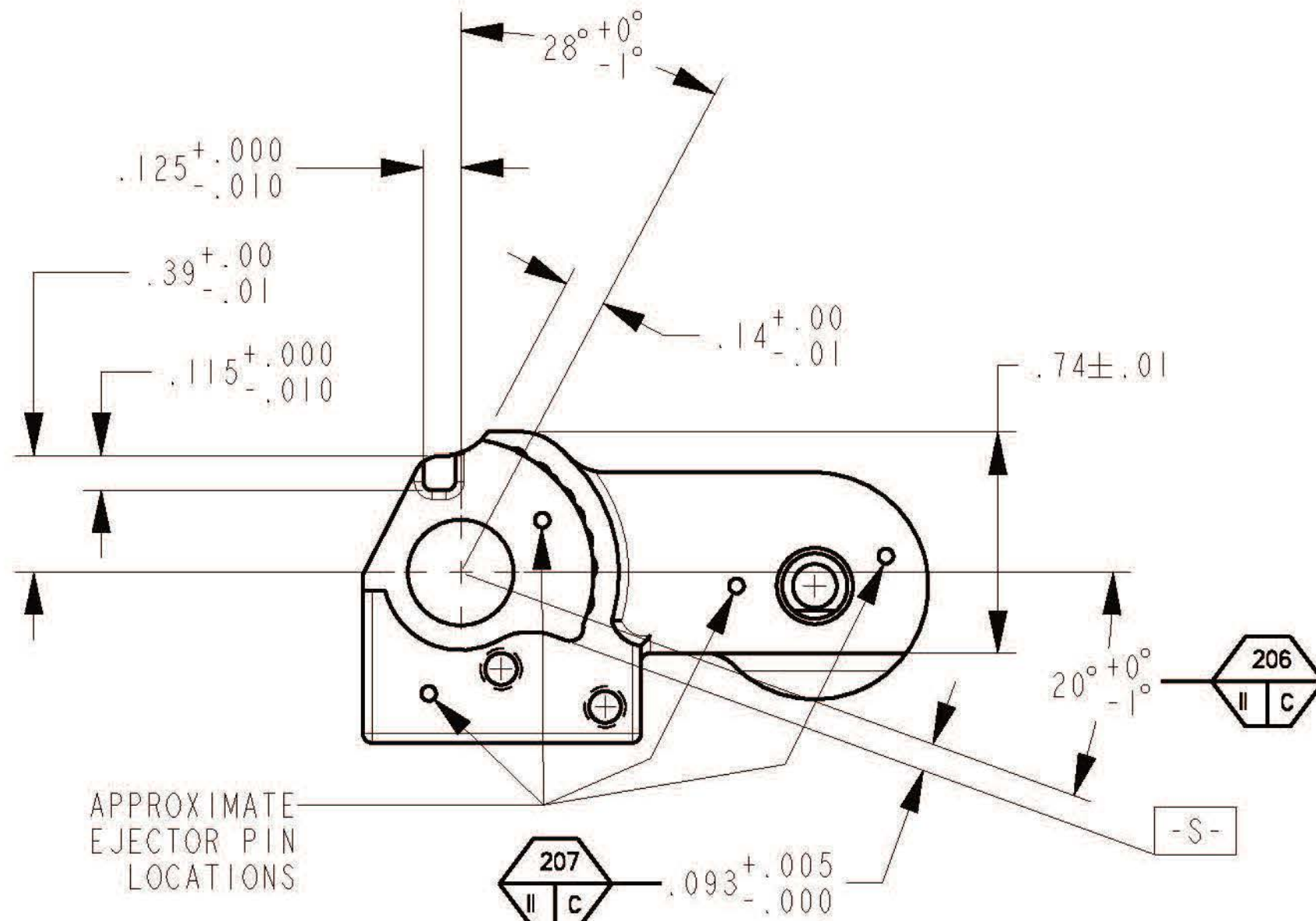
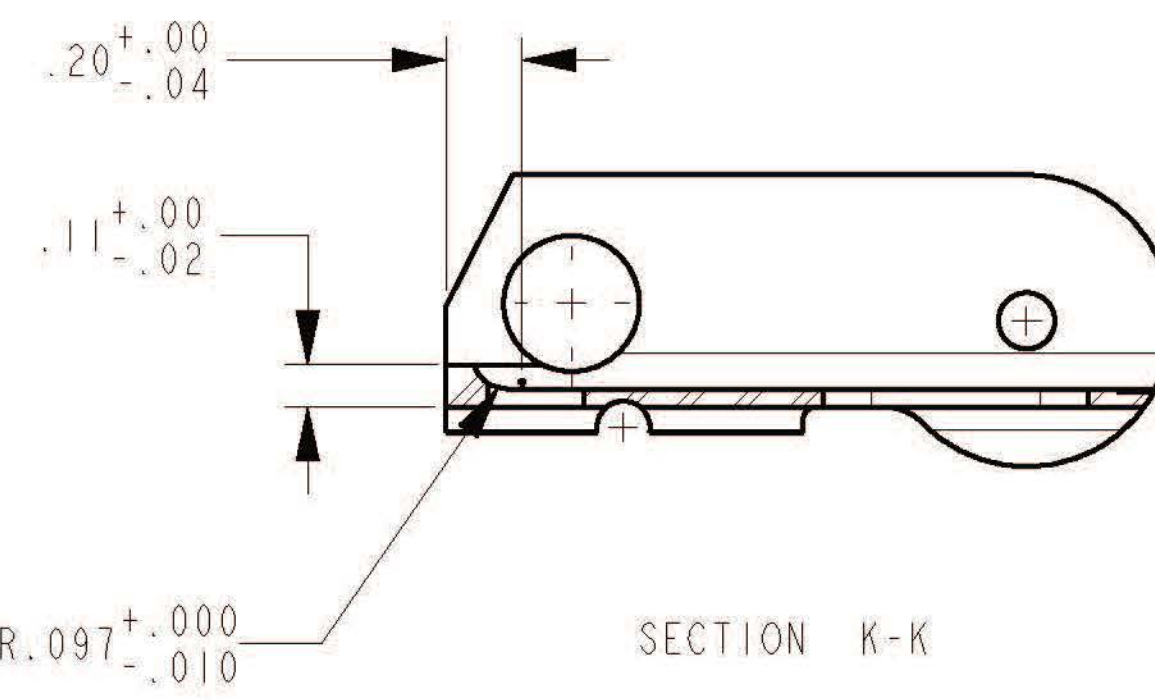
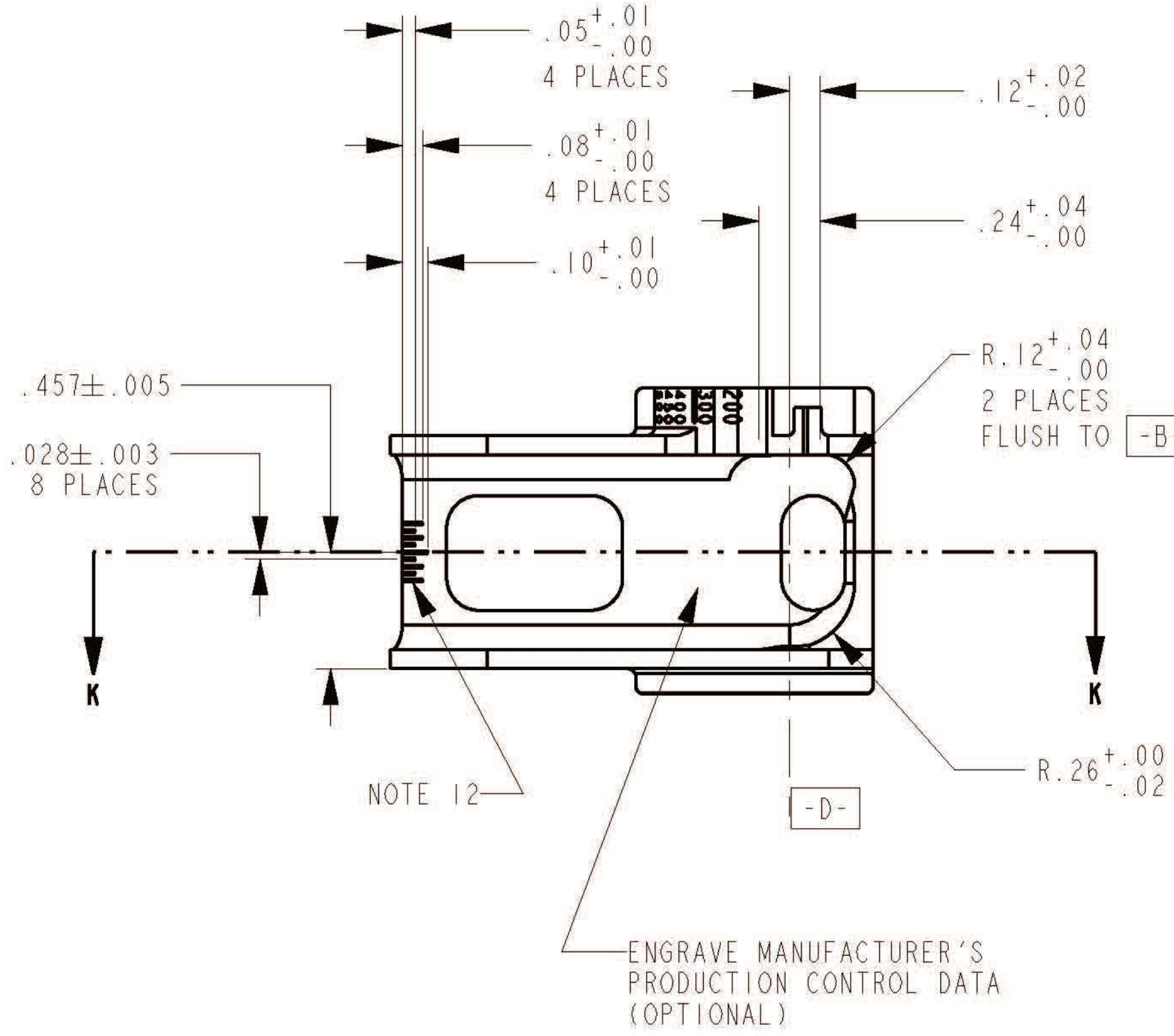




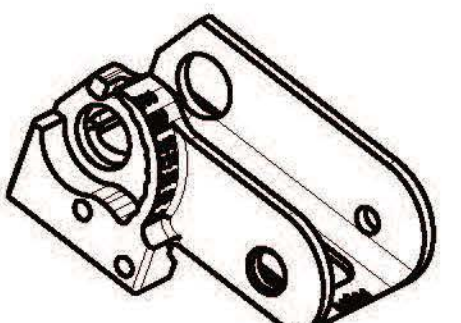
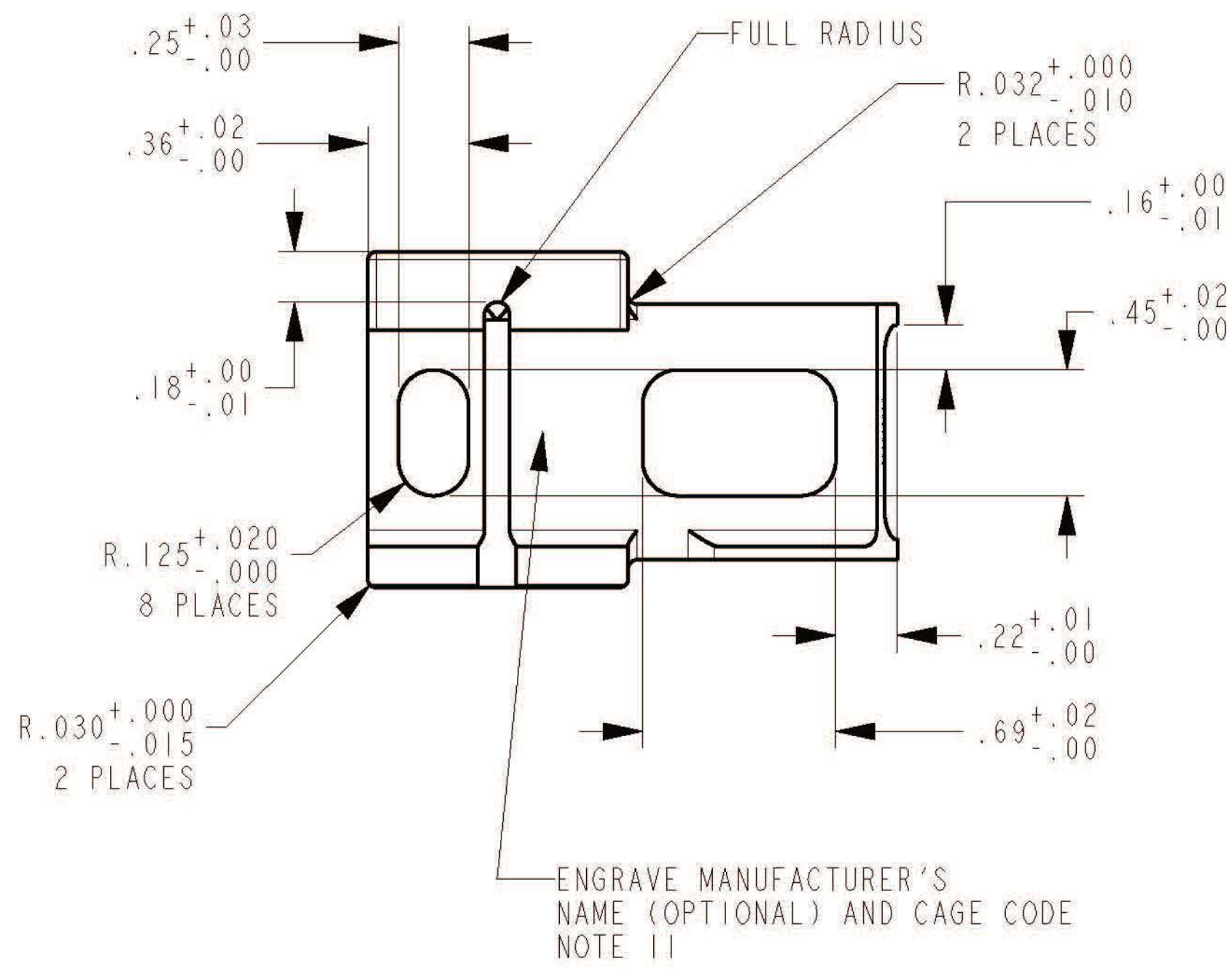
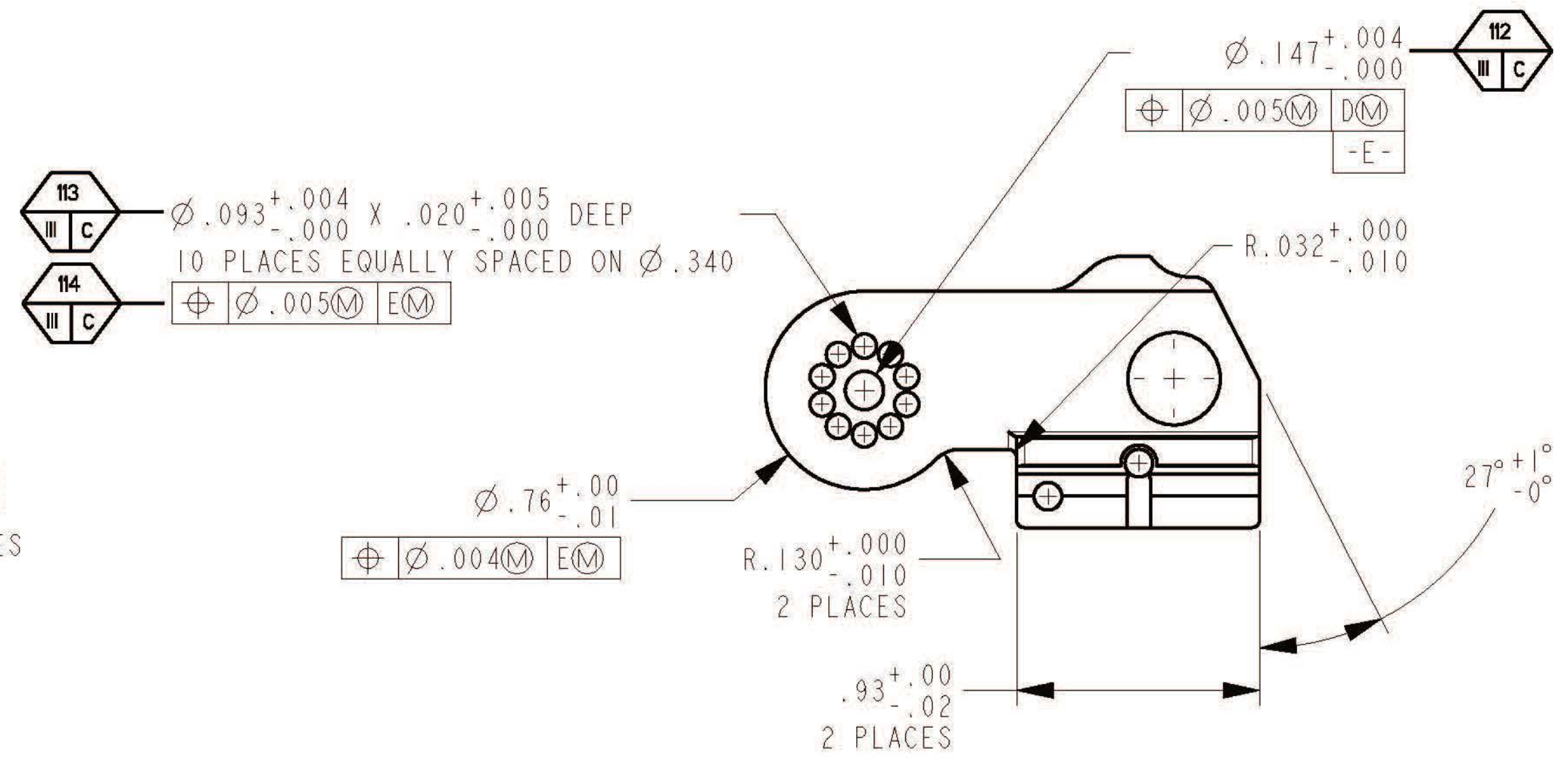
REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR L1S2085	2001-05-02	RLV
N/A	A	NOR L252118 / 2002-05-28	2002-06-28	HJS
-	B	NOR L0453029 / 2004-06-22	2004-08-02	RLV
A	C	NOR L0453054 / 2004-10-26	2004-11-20	BMG
B	D	NOR L0455154 / 2004-10-22	2004-12-15	RJC
C	E	NOR L0553050 / 2005-07-06	2005-08-16	BMG
D	F	NOR L0653002 / 2006-01-25	2006-03-06	BMG
E	G	NOR L1053004 / 2011-01-06	2011-02-10	AMW



SEE DETAIL



DETAIL J  
SCALE 24.000



ISO VIEW  
SCALE 1.000

- 502 Z SALT SPRAY TEST
- 503 Z COATING WEIGHT
- 208 V MISSING OR DEFECTIVE PROTECTIVE FINISH
- 209 V MISSING, DEFECTIVE, OR ILLEGIBLE MARKING
- 210 V WORKMANSHIP

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

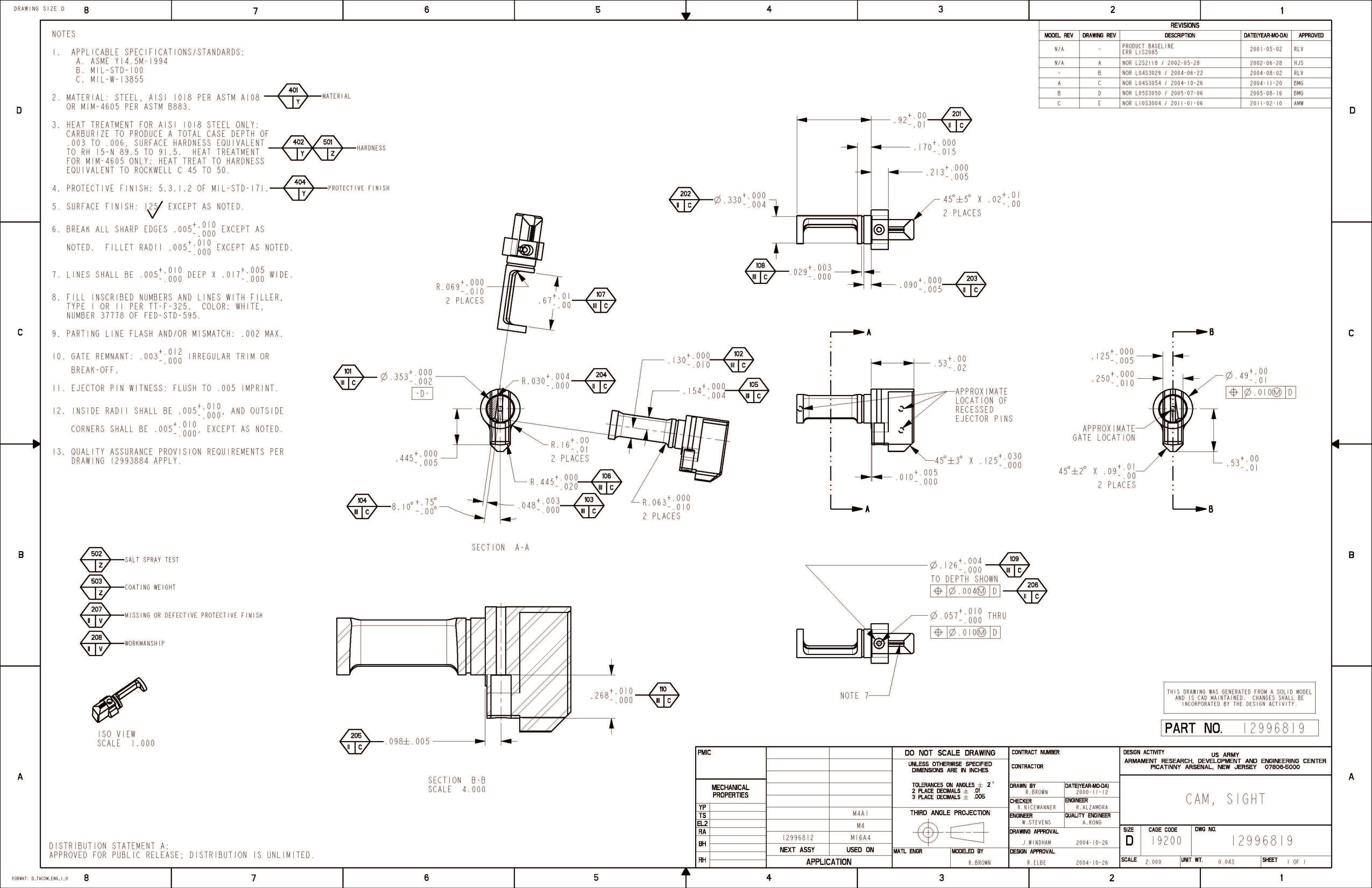
PART NO. 12996818

DESIGN ACTIVITY US ARMY  
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER  
PICATINNY ARSENAL, NEW JERSEY 07806-5000

BASE, SIGHT

SIZE	CAGE CODE	DWG NO.
F	19200	12996818
SCALE	UNIT WT.	SHEET
2.000	0.088	2 OF 2







NOTES

1. APPLICABLE SPECIFICATIONS AND STANDARDS:  
A. ASME Y14.5M-1994  
B. MIL-W-13855  
C. MIL-STD-100

2. MATERIAL: MUSIC WIRE PER ASTM A 228  
OR AMS 5112, EXCEPT THAT TENSILE  
STRENGTH SHALL BE 376 KSI MIN.

3. STRESS RELIEVE AFTER FORMING. HOLD AT  
450°± 25° F FOR 30 MINUTES ± 2 MINUTES.

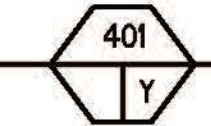
4. SET SPRING 3 TIMES AFTER STRESS RELIEF.

5. BREAK ALL EDGES .003<sup>+.012</sup><sub>-.000</sub>.

6. PROTECTIVE FINISH: FINISH 5.3.1.2 OF  
MIL-STD-171.

7. IDENTIFICATION OF THE SUGGESTED SOURCE(S)  
OF SUPPLY HEREON IS NOT TO BE CONSTRUED  
AS A GUARANTEE OF PRESENT OR CONTINUED  
AVAILABILITY AS A SOURCE OF SUPPLY FOR  
THE ITEM(S).

8. QUALITY ASSURANCE PROVISION REQUIREMENTS  
PER DRAWING NUMBER 12993884 APPLY.

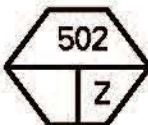
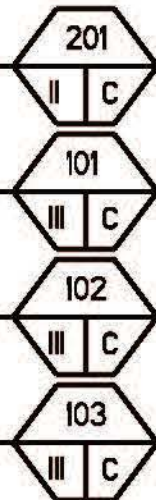


MATERIAL



PROTECTIVE FINISH

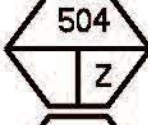
SPRING DATA	
WIRE DIAMETER	Ø .0140±.0003
COIL DIAMETER (OD)	Ø .120±.005
TOTAL COILS	15 APPROX
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .364	1.20 LB ±10%
LOAD AT COMPRESSED LENGTH OF .238	1.66 LB ±10%
SPRING RATE	3.7 LB/IN REF
SOLID LENGTH	.219 MAX
TYPE OF ENDS	SQUARED AND GROUND
FREE LENGTH AFTER SETTING	.69 APPROX



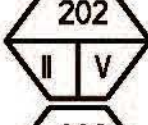
SALT SPRAY TEST



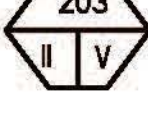
COATING WEIGHT



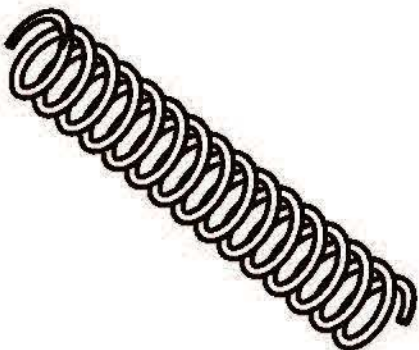
SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST



MISSING OR DEFECTIVE PROTECTIVE FINISH



WORKMANSHIP



ISOMETRIC VIEW  
SCALE 4.000

DISTRIBUTION STATEMENT A:  
APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED.

SUGGESTED SOURCE(S) OF SUPPLY

PART NO.	VENDOR		VENDOR PART NO.
	ADDRESS	CAGE CODE	
12996820	ASSOCIATED SPRING RAYMOND 370 W. DUSSEL DRIVE - SUITE A MAUMEE, OH 43537-1604	N/A	C0120-014-0690-M

THIS DRAWING WAS GENERATED FROM A SOLID MODEL  
AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12996820

VENDOR ITEM DRAWING

PMIC			DO NOT SCALE DRAWING	CONTRACT NUMBER	DESIGN ACTIVITY
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
MECHANICAL PROPERTIES			TOLERANCE ON ANGLES ± 2° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 2000-11-12
YP		M4A1	THIRD ANGLE PROJECTION	CHECKER R. NICEWANNER	ENGINEER R. ALZAMORA
TS		M4		ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG
EL2		M16A4		DRAWING APPROVAL J. WINDHAM	2004-10-26
RA	12996812	M16A3		DESIGN APPROVAL R. ELBE	2004-10-26
BH			MATL ENGR		
RH			MODELED BY R. BROWN		
			APPLICATION		

SIZE C	CAGE CODE 19200	DWG NO. 12996820
SCALE 6.000	UNIT WT. 0.000225	SHEET 1 OF 1

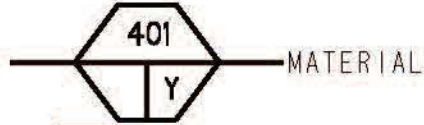


NOTES

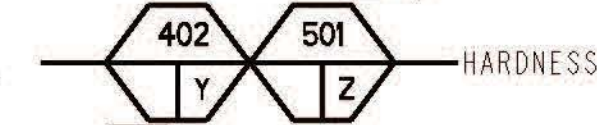
1. APPLICABLE STANDARDS/SPECIFICATIONS:

- A. ASME Y14.5M-1994
- B. MIL-STD-100
- C. MIL-W-13855

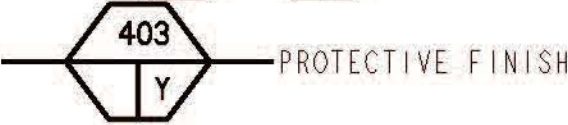
2. MATERIAL: STEEL, AISI 4340, 4130 OR 4140 PER ASTM A108.



3. HARDNESS: EQUIVALENT TO ROCKWELL C 32 TO 38.



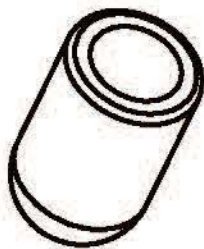
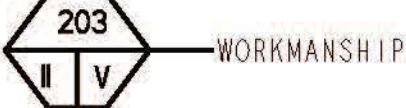
4. PROTECTIVE FINISH: 5.3.1.2 OF MIL-STD-171.



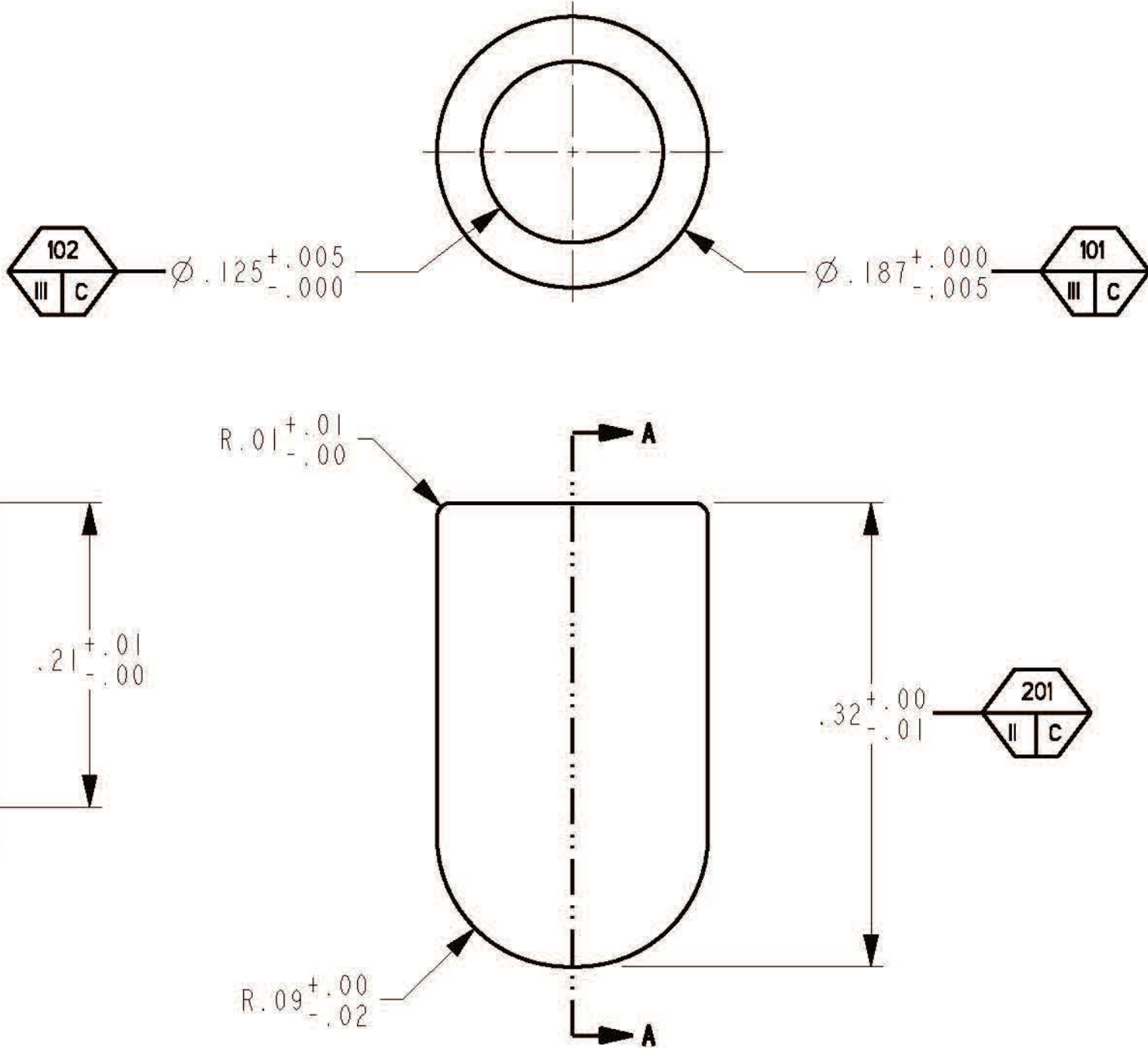
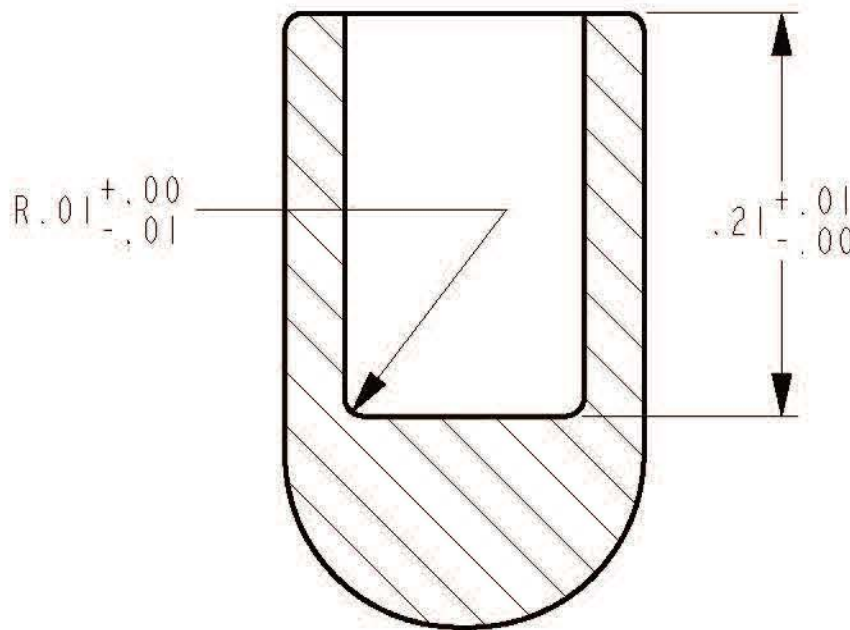
5. SURFACE FINISH: 125 ✓ EXCEPT AS NOTED.

6. BREAK ALL SHARP EDGES .005<sup>+.010</sup><sub>-.000</sub> EXCEPT AS NOTED.

7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

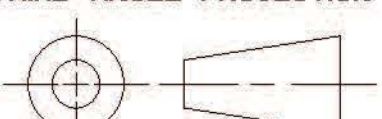


ISO VIEW  
SCALE 4.000



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INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 12996821

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
				TOLERANCE ON ANGLES $\pm 2^{\circ}$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY R. BROWN		DATE(YEAR-MO-DA) 2000-11-12		PLUNGER	
						CHECKER R. NICEWANNER		ENGINEER R. ALZAMORA			
						ENGINEER W. STEVENS		QUALITY ENGINEER A. KONG			
						DRAWING APPROVAL J. WINDHAM 2004-10-26					
YP				THIRD ANGLE PROJECTION		DESIGN APPROVAL		SIZE		CAGE CODE	DWG NO.
TS			M4A1			J. WINDHAM 2004-10-26		C		19200	12996821
EL2			M4								
RA		12996812	M16A4								
BH		NEXT ASSY	USED ON	MATL ENGR		MODELED BY					
RH		APPLICATION				R. BROWN		DESIGN APPROVAL		SCALE	SHEET
								R. ELBE 2004-10-26		10.000	1 OF 1
										UNIT WT.	
										0.001565	



NOTES

1. APPLICABLE STANDARDS/SPECIFICATIONS:  
A. ASME Y14.5M-1994  
B. MIL-W-13855  
C. MIL-STD-100

2. MATERIAL: STEEL, AISI 4340, 4130 OR 4140 PER ASTM A108.

3. HEAT TREATMENT: HEAT TREAT TO PRODUCE HARDNESS EQUIVALENT TO ROCKWELL C 32 TO 36.

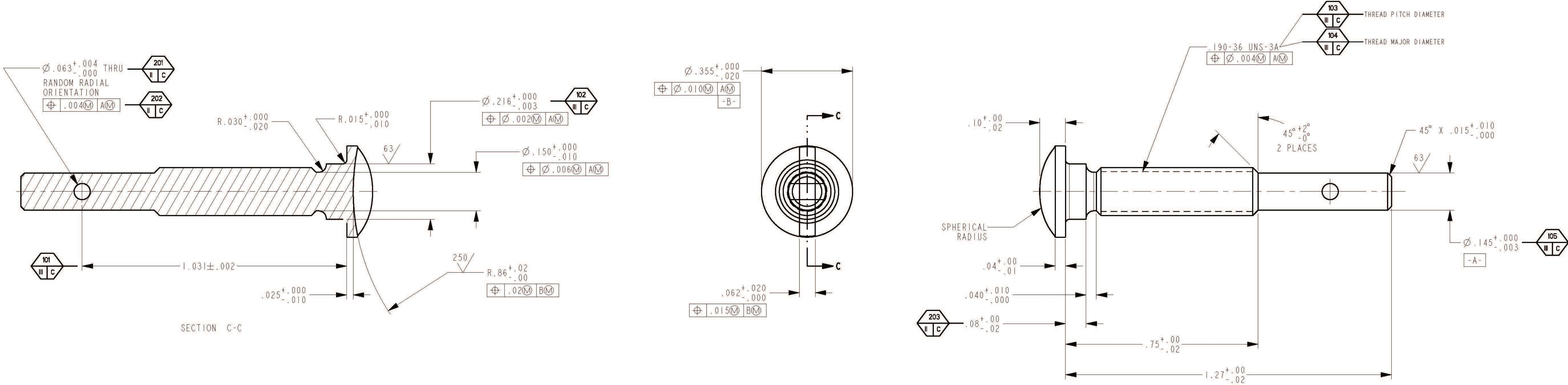
4. PROTECTIVE FINISH: 5.3.1.2 OF MIL-STD-171.

5. SURFACE FINISH:  $\sqrt{125}$  EXCEPT AS NOTED.

6. BREAK ALL SHARP EDGES  $.005^{+.010}_{-.000}$  EXCEPT AS NOTED.

7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

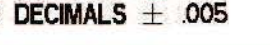
REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
N/A	-	PRODUCT BASELINE ERR L1S2085	2001-05-02	RLV
N/A	A	NOR L252118 / 2002-06-28	2002-06-28	HJS
-	B	NOR L0453029 / 2004-06-22	2004-08-02	RLV
A	C	NOR L1053004 / 2011-01-06	2011-02-10	AMW



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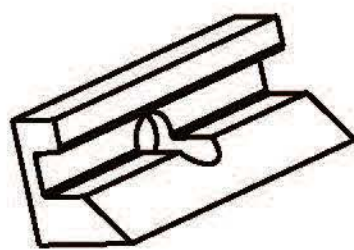
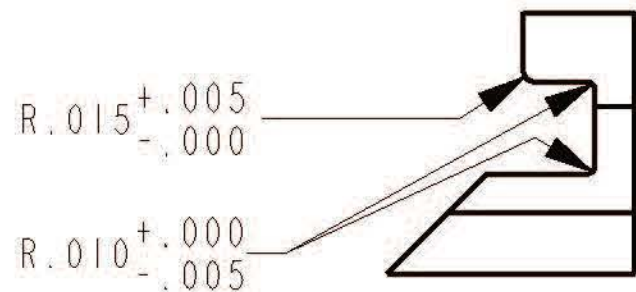
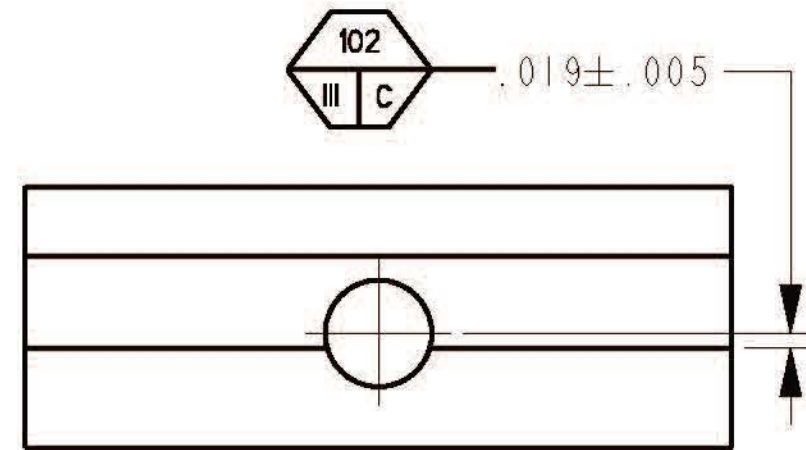
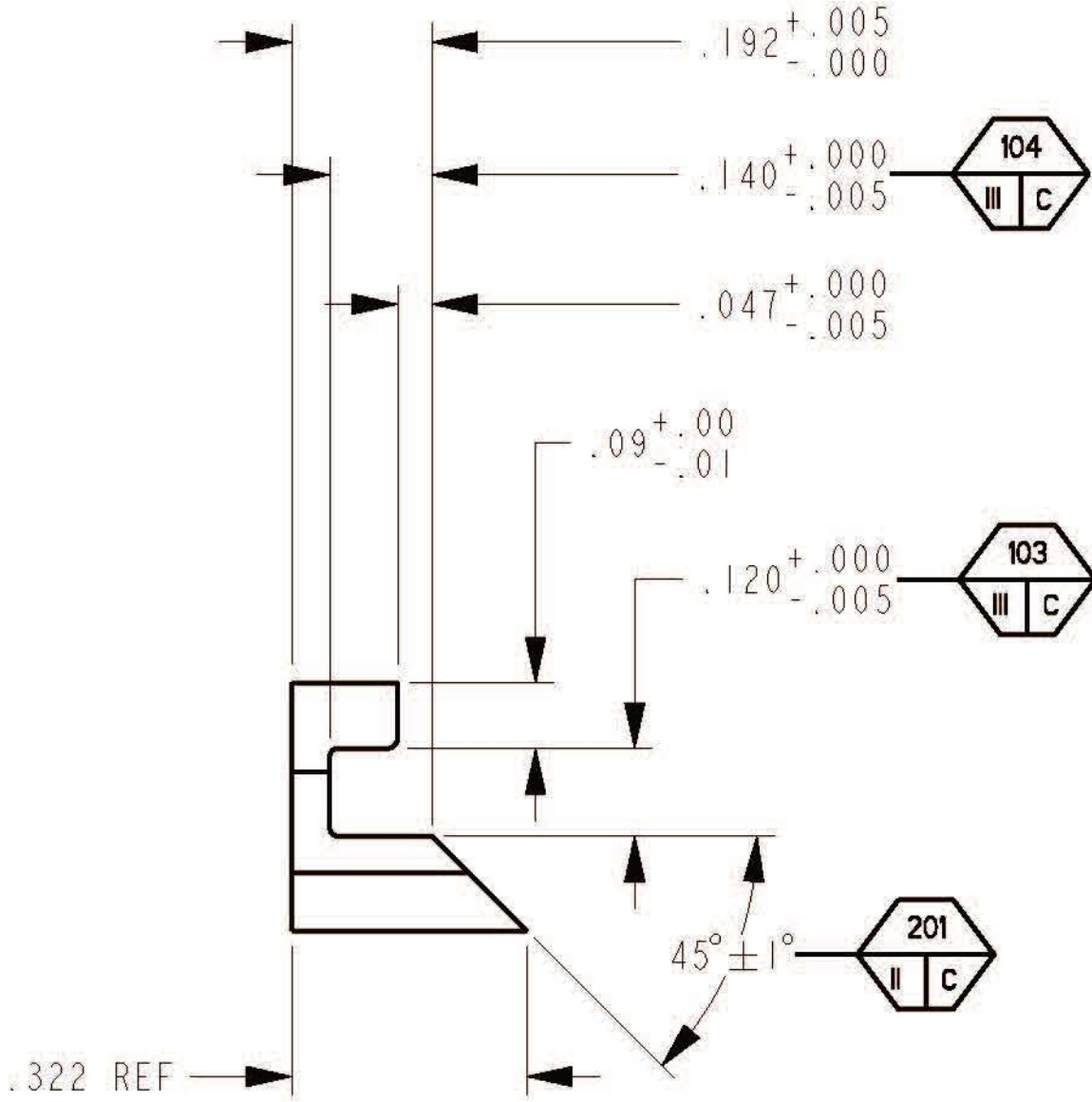
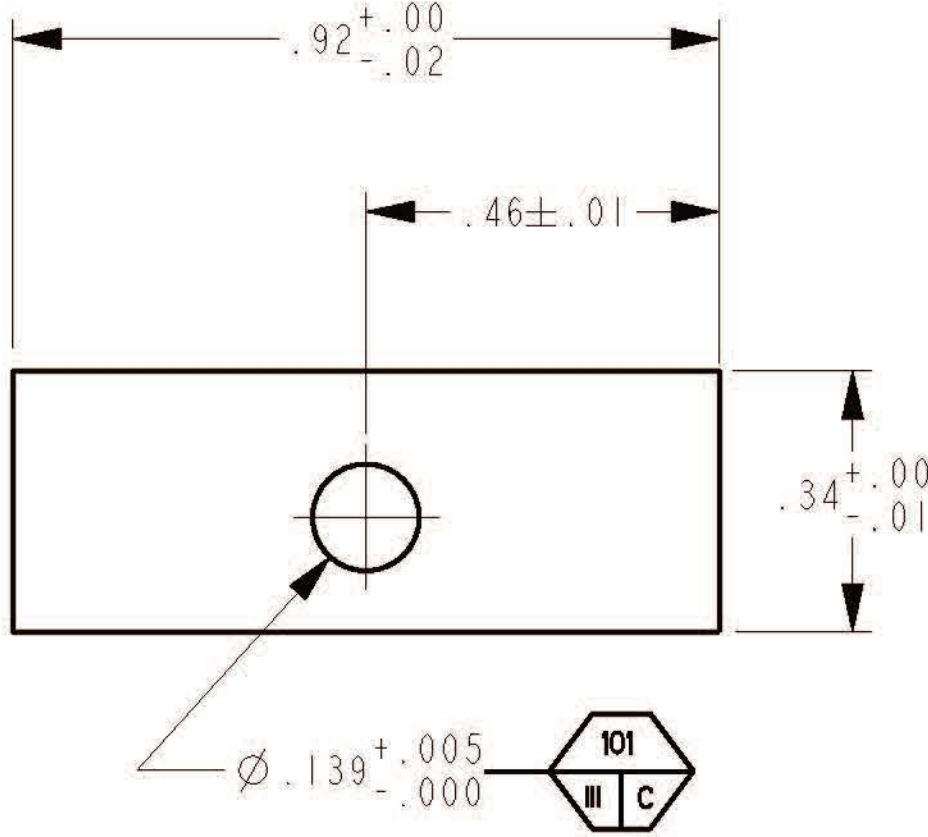
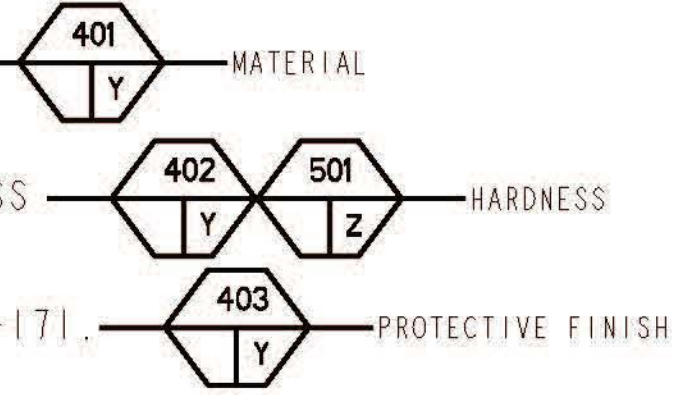
PART NO. 12996822

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY			
MECHANICAL PROPERTIES				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
				TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY		DATE (YEAR-MO-DA)		SCREW, WINDAGE	
				THIRD ANGLE PROJECTION		R. BROWN		2000-11-12			
						N. NICEWANNER		ENGINEER			
YP						ENGINEER		R. ALZAMORA			
TS		M4A1				ENGINEER		W. STEVENS			
EL2		M4				DRAWING APPROVAL		A. KONG			
RA		12996812		M16A4		J. WINDHAM		2004-06-22			
BH		NEXT ASSY		USED ON		DESIGN APPROVAL		R. ELBE			
RH		APPLICATION				R. BROWN		2004-06-22			
										</	



NOTES

1. APPLICABLE STANDARDS AND SPECIFICATIONS:  
A. ASME Y14.5M-1994.  
B. MIL-W-13855.  
C. MIL-STD-100.
2. MATERIAL: STEEL, AISI 4130, 4137, 4140, OR 4340 PER ASTM A 322.
3. HEAT TREATMENT: HEAT TREAT TO PRODUCE HARDNESS EQUIVALENT TO ROCKWELL C 32 TO 36.
4. PROTECTIVE FINISH: FINISH 5.3.1.2 OF MIL-STD-171.
5. SURFACE FINISH: 125/ EXCEPT AS NOTED.
6. -
7. -
8. -
9. -
10. INSIDE RADII SHALL BE  $.005^{+.010}_{-.000}$ , AND OUTSIDE CORNERS SHALL BE  $.005^{+.010}_{-.000}$ , EXCEPT AS NOTED.
11. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW  
SCALE 2.000

- 502 Z SALT SPRAY TEST
- 503 Z COATING WEIGHT
- 203 II V MISSING OR DEFECTIVE PROTECTIVE FINISH
- 204 II V WORKMANSHIP

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PART NO. 12996823

PMIC		DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY	
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
YP		TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 2000-11-12	BAR, LOCKING	
TS		THIRD ANGLE PROJECTION		CHECKER R. NICEWANNER	ENGINEER R. ALZAMORA		
EL2				ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG		
RA		12996812	M4A1	DRAWING APPROVAL J. WINDHAM 2004-06-22		SIZE D	CAGE CODE 19200
BH		NEXT ASSY	USED ON	DESIGN APPROVAL R. ELBE 2004-06-22		DWG NO. 12996823	
RH		APPLICATION		MATL ENGR R. BROWN		SCALE 4.000	UNIT WT. 0.014
						SHEET 1 OF 1	







NOTES

1. MIL-W-13855 APPLIES.
2. MATERIAL: WIRE, STEEL, MUSIC SPRING QUALITY,  $\varnothing .026$  PER ASTM A 228.
3. STRESS RELIEF: HOLD AT  $450^{\circ}\text{F} \pm 25^{\circ}\text{F}$  FOR 30 MINUTES.
4. SUGGESTED SOURCES OF SUPPLY:
- A. NATIONAL-STANDARD COMPANY  
1618 TERMINAL ROAD  
NILES, MI 49120
- B. THE MAPES PIANO STRING COMPANY  
#1 WIRE MILL ROAD  
ELIZABETHTON, TN 37643

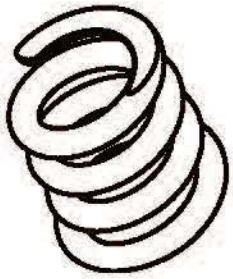
IDENTIFICATION OF THE SUGGESTED SOURCE(S) OF SUPPLY HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S).

5. MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A PER MIL-S-13572.
6. BREAK EDGES  $.003^{+.012}_{-.000}$  EXCEPT AS NOTED.
7. PRESET: COMPRESS TO SOLID HEIGHT 3 TIMES PRIOR TO CHECKING LOADS.
8. PROTECTIVE FINISH: FINISH 1.10.4 OF MIL-STD-171. (COPPER PLATING.)
9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.

 MISSING OR DEFECTIVE PROTECTIVE FINISH

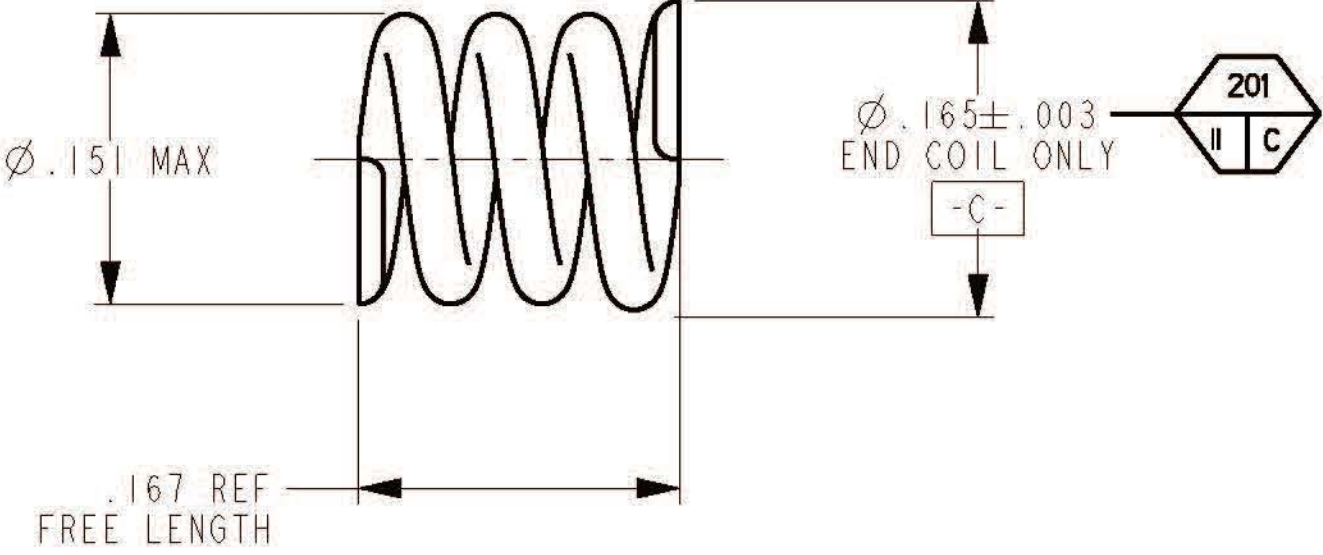
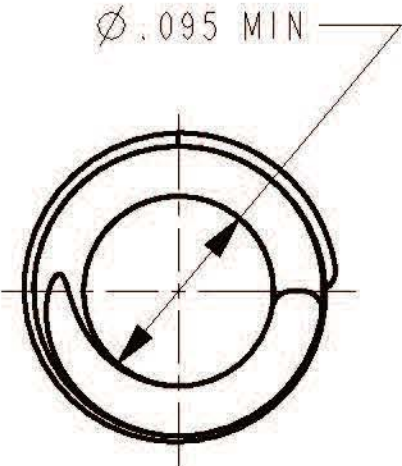
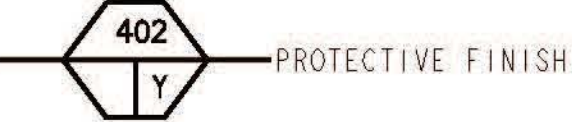
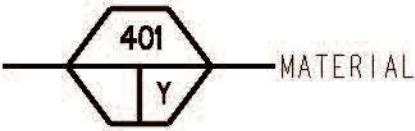
 WORKMANSHIP

NOTE 7

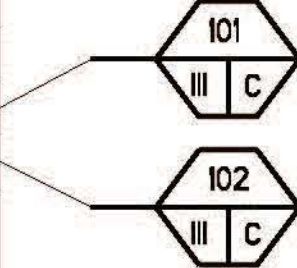


ISOMETRIC VIEW  
SCALE 6.000

DISTRIBUTION STATEMENT A:  
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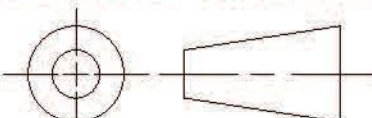


SPRING DATA		
WIRE DIAMETER	$\varnothing .026$	
TOTAL COILS	4 REF	
DIRECTION OF HELIX	OPTIONAL	
LOAD AT COMPRESSED LENGTH OF .140	$3.6 \text{ LB} \pm 0.6 \text{ LB}$	
LOAD AT COMPRESSED LENGTH OF .112	$8.4 \text{ LB} \pm 0.8 \text{ LB}$	
ONE END EXPANDED TO DIMENSION	-C-	
TYPE OF ENDS	CLOSED AND GROUND	
SOLID LENGTH	.106 MAX	



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PART NO. 12999901

PMIC				DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000					
			M4A1										
			M4										
MECHANICAL PROPERTIES			M16A4	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005		DRAWN BY J. MACON - ESERV DATE(YEAR-MO-DA) 2002-12-18		SPRING, EXTRACTOR					
			M16A3										
			M16A2										
YP			M16A1	THIRD ANGLE PROJECTION 		CHECKER D. COLLUM ENGINEER R. ALZAMORA ENGINEER W. STEVENS QUALITY ENGINEER A. KONG		SIZE C CAGE CODE 19200 DWG NO. 12999901					
TS			M16										
EL2		13004786											
RA						DRAWING APPROVAL L. BRUNTON 2002-12-18		SCALE 10.000 UNIT WT. 0.000165 SHEET 1 OF 1					
BH		NEXT ASSY	USED ON	MATL ENGR MODELED BY J. MACON - ESERV								DESIGN APPROVAL R. ELBE 2002-12-18	
RH		APPLICATION											







NOTES

1. MATERIAL PROPERTIES / ANALYSES SHALL BE PERFORMED AND CERTIFIED, WHEN APPLICABLE, USING FINISHED SAMPLE COMPONENT PARTS.
2. METAL INJECTION MOLDED (MIM) COMPONENTS WILL BE CONSIDERED CASTINGS, WHEN CASTING SPECIFICATIONS/INSPECTIONS ARE CITED ON THE COMPONENT DRAWING.
3. DENSITY: MIM COMPONENTS SHALL HAVE A MINIMUM DENSITY OF 7.5 GRAMS PER CUBIC CENTIMETER. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM B 311. IF A COMPONENT GAINS MASS WHEN IMMERSSED IN WATER, THEN ASTM B 962 SHALL BE USED TO MEASURE COMPONENT DENSITY.
4. THE FOLLOWING MATERIAL DESIGNATIONS AND CHEMICAL ANALYSES SHALL APPLY:

MIM-4130

Cr: 0.8% TO 1.1%  
Mo: 0.12% TO 0.25%  
Si: < 0.35%  
C: 0.28% TO 0.33%  
Mn: < 0.6%  
Fe: BALANCE

MIM-4140

Cr: 0.8% TO 1.1%  
Mo: 0.12% TO 0.25%  
Si: < 0.35%  
C: 0.38% TO 0.43%  
Mn: < 1.0%  
Fe: BALANCE

MIM-8620

Cr: 0.4% TO 0.6%  
Mo: 0.15% TO 0.25%  
C: 0.18% TO 0.23%  
Mn: 0.7% TO 0.9%  
Ni: 0.4% TO 0.7%  
Fe: BALANCE

MIM-17-4 PH SS

Cr: 15.5% TO 17.5%  
Ni: 3% TO 5%  
Cu: 3% TO 5%  
Nb + Ta: 0.15% TO 0.45%  
Si: <1%  
Mn: <1%  
C: <0.07%  
Fe: BALANCE

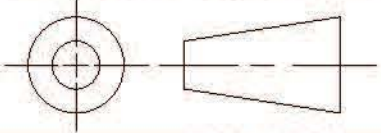
REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	PRODUCT BASELINE ERR L06S9051	2006-07-19	BMG
A	A	NOR L08S3133 / 2008-11-13	2008-12-10	BMG
B	B	NOR L10S3047 / 2010-05-14	2010-05-21	BMG
C	C	NOR L10S2032 / 2010-08-10	2010-12-27	AMW

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INCORPORATED BY THE DESIGN ACTIVITY.

PART NO. 13011863

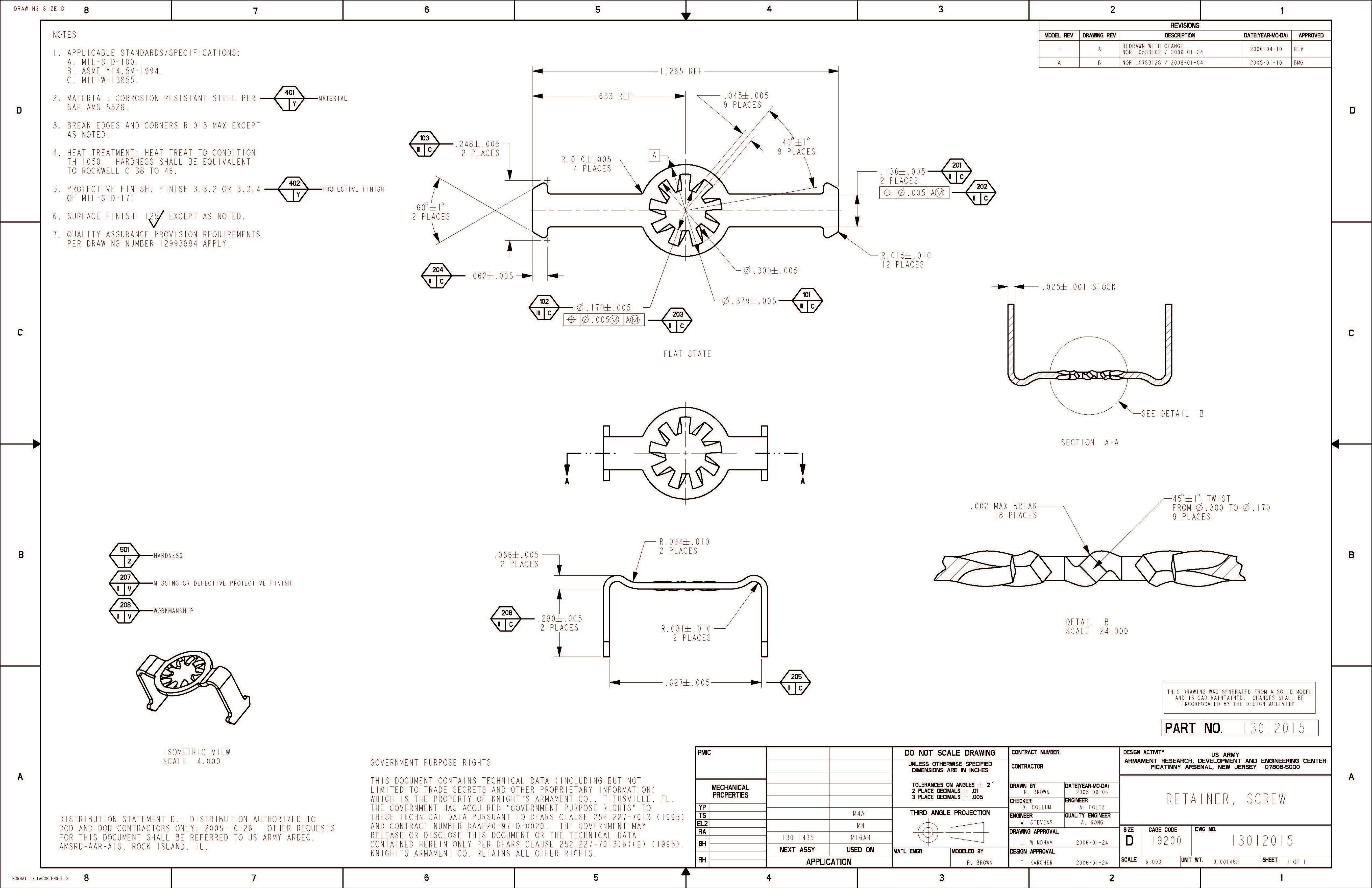
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			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR					
			TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY R. BROWN	DATE(YEAR-MO-DA) 2006-07-19	GENERAL REQUIREMENTS FOR METAL INJECTION MOLDED (MIM) MATERIALS (FOR SMALL ARMS)			
			THIRD ANGLE PROJECTION		CHECKER J. KREIDER	ENGINEER A. FOLTZ				
					ENGINEER W. STEVENS	QUALITY ENGINEER A. KONG				
MECHANICAL PROPERTIES					DRAWING APPROVAL L. BRUNTON 2006-04-11		SIZE C	CAGE CODE 19200	DWG NO. 13011863	
YP					DESIGN APPROVAL R. ELBE 2006-04-11		SCALE N/A	UNIT WT. N/A	SHEET 1 OF 1	
TS										
EL2										
RA										
BH		NEXT ASSY	USED ON	MATL ENGR	MODELED BY R. BROWN					
RH		APPLICATION								



1

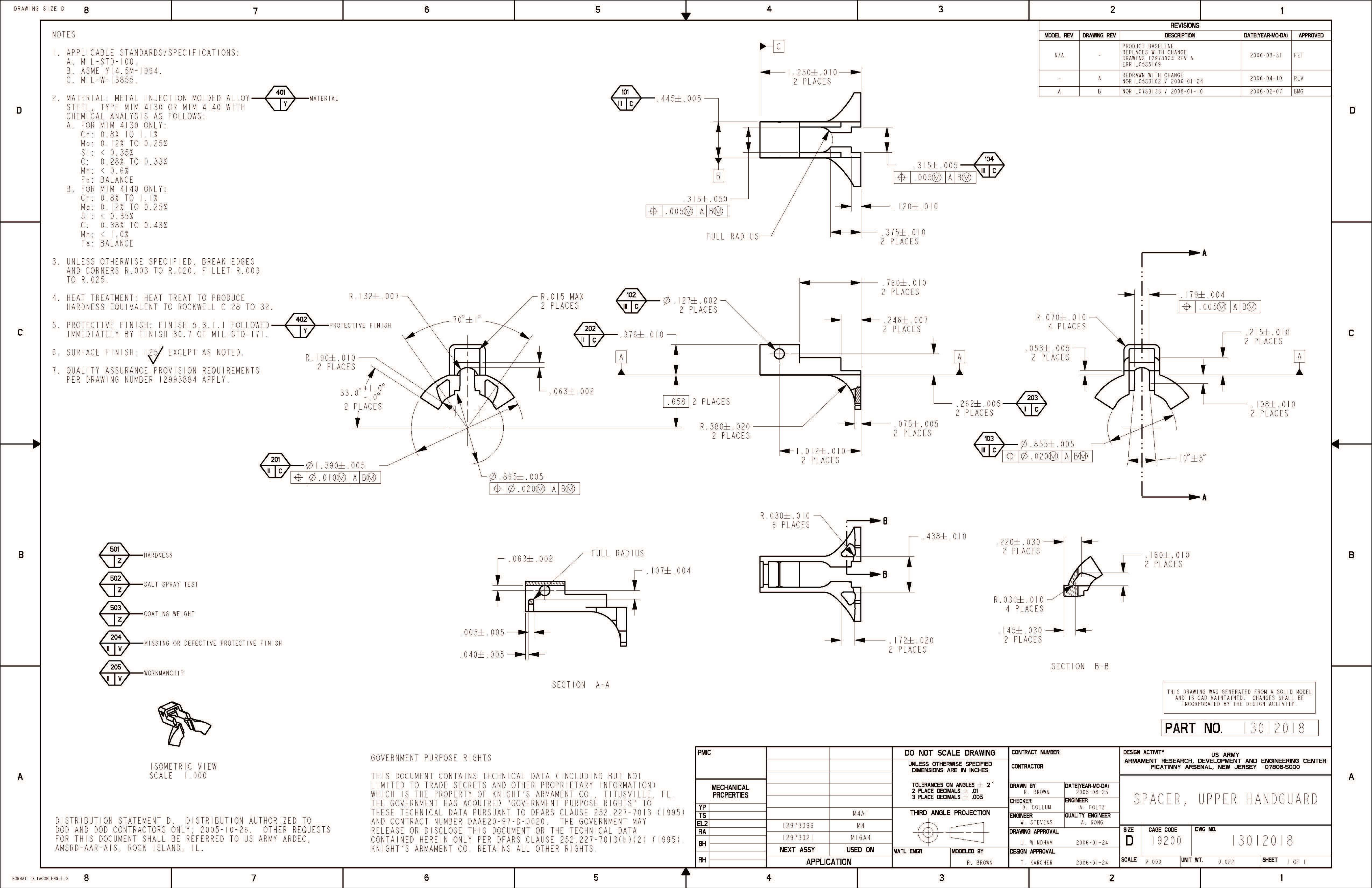






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DUE TO GOVERNMENT GENERATED ENGINEERING CHANGES, THERE MAY BE DATA AND/OR TOLERANCES NOT PROPRIETARY TO COLT'S.

NOTES:

1. MIL-W-13855 APPLIES.

2. MATERIAL: WIRE, STAINLESS STEEL, TYPE 631 (17-7PH),  
COLD DRAWN PER ASTM A 313.

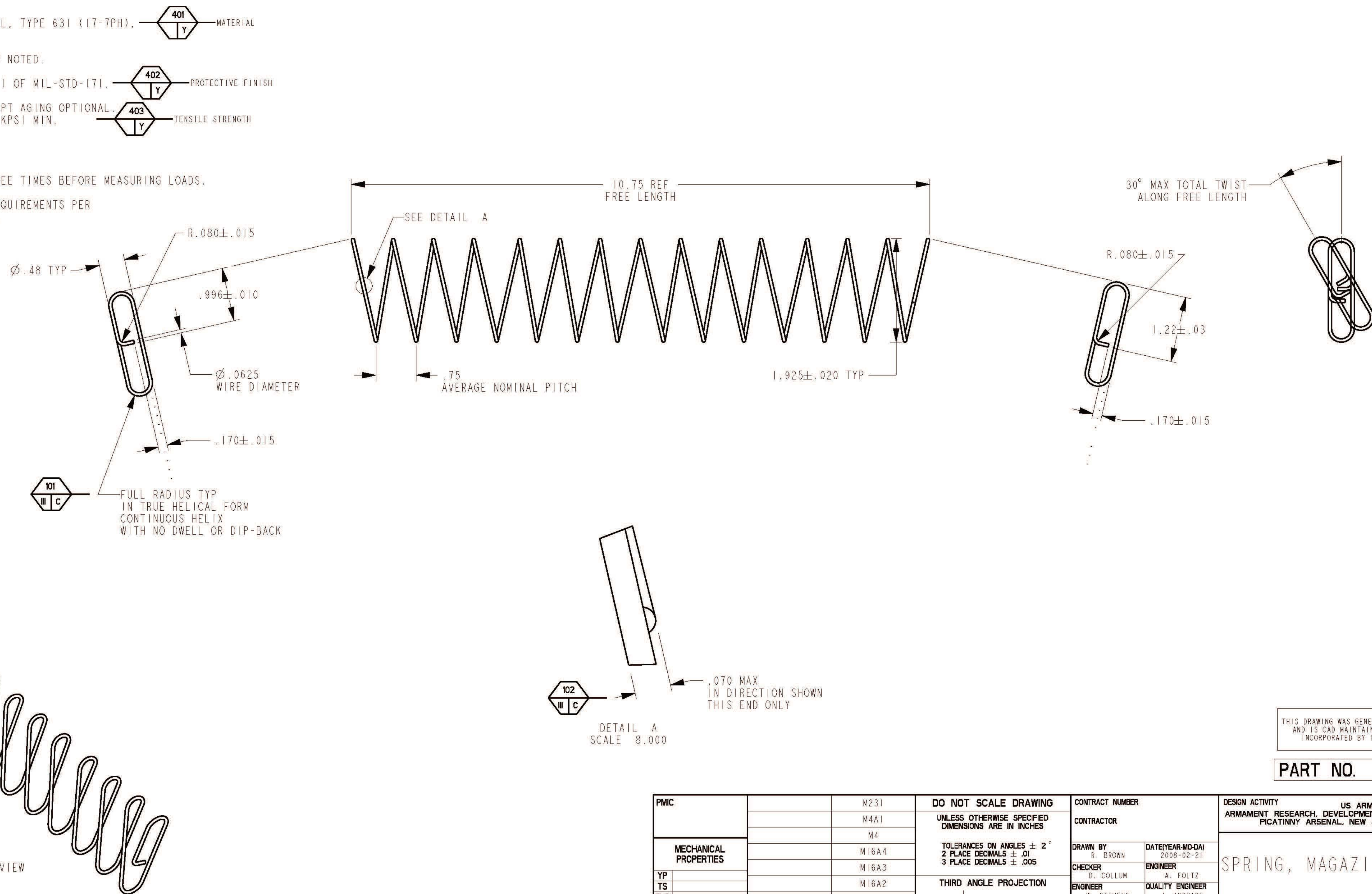
3. SURFACE FINISH: 125/ EXCEPT AS NOTED.

4. PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.

5. HEAT TREAT PER MIL-H-6875 EXCEPT AGING OPTIONAL  
TENSILE STRENGTH SHALL BE 230 KPSI MIN.

6. LOAD HEIGHT REQUIREMENTS:  
LOAD AT 6.565:  $2.84 \pm 0.28$  LB.  
LOAD AT 1.500:  $6.94 \pm 0.69$  LB.  
SET SPRING TO SOLID HEIGHT T


7. QUALITY ASSURANCE PROVISION REQUIREMENTS PER  
DRAWING NUMBER 12993884 APPLY.



REVISIONS						
MODEL		REV		DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	-	-	PRODUCT BASELINE REPLACES WITH CHANGE DRAWING 8448671 REV P NOR L06S3021 / 2008-03-11	2008-03-18	BMG
A	A	A	A	NOR L08S3076 / 2008-07-15	2008-08-18	AMW

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AND IS CAD MAINTAINED. CHANGES SHALL BE  
INCORPORATED BY THE DESIGN ACTIVITY.

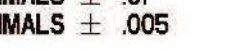
PART NO. 13021313

PMIC			M231	DO NOT SCALE DRAWING  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		CONTRACT NUMBER		DESIGN ACTIVITY US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000							
			M4A1			CONTRACTOR									
			M4												
MECHANICAL PROPERTIES			M16A4	<div>THIRD ANGLE PROJECTION</div> 		DRAWN BY		DATE(YEAR-MO-DA)		SPRING, MAGAZINE, 30 ROUND					
			M16A3			R. BROWN		2008-02-21							
			M16A2			CHECKER		ENGINEER							
YP			M16A1			D. COLLUM		A. FOLTZ							
TS						ENGINEER		QUALITY ENGINEER							
EL2						W. STEVENS		J. ANDRADE							
RA						DRAWING APPROVAL				SIZE		CAGE CODE	DWG NO.		
BH			13021312			L. MORSE		2008-03-11		D		19200	13021313		
RH			NEXT ASSY	USED ON	MATL ENGR	MODELED BY	DESIGN APPROVAL				SCALE		UNIT WT.	SHEET	OF 1
			APPLICATION				J. WINDHAM		2008-03-11		1.000		0.051	1	
							A. FOLTZ								

DISTRIBUTION STATEMENT F. REQUEST APPROVAL OF AMSRD-AAR-AIS; 2008-01-17.



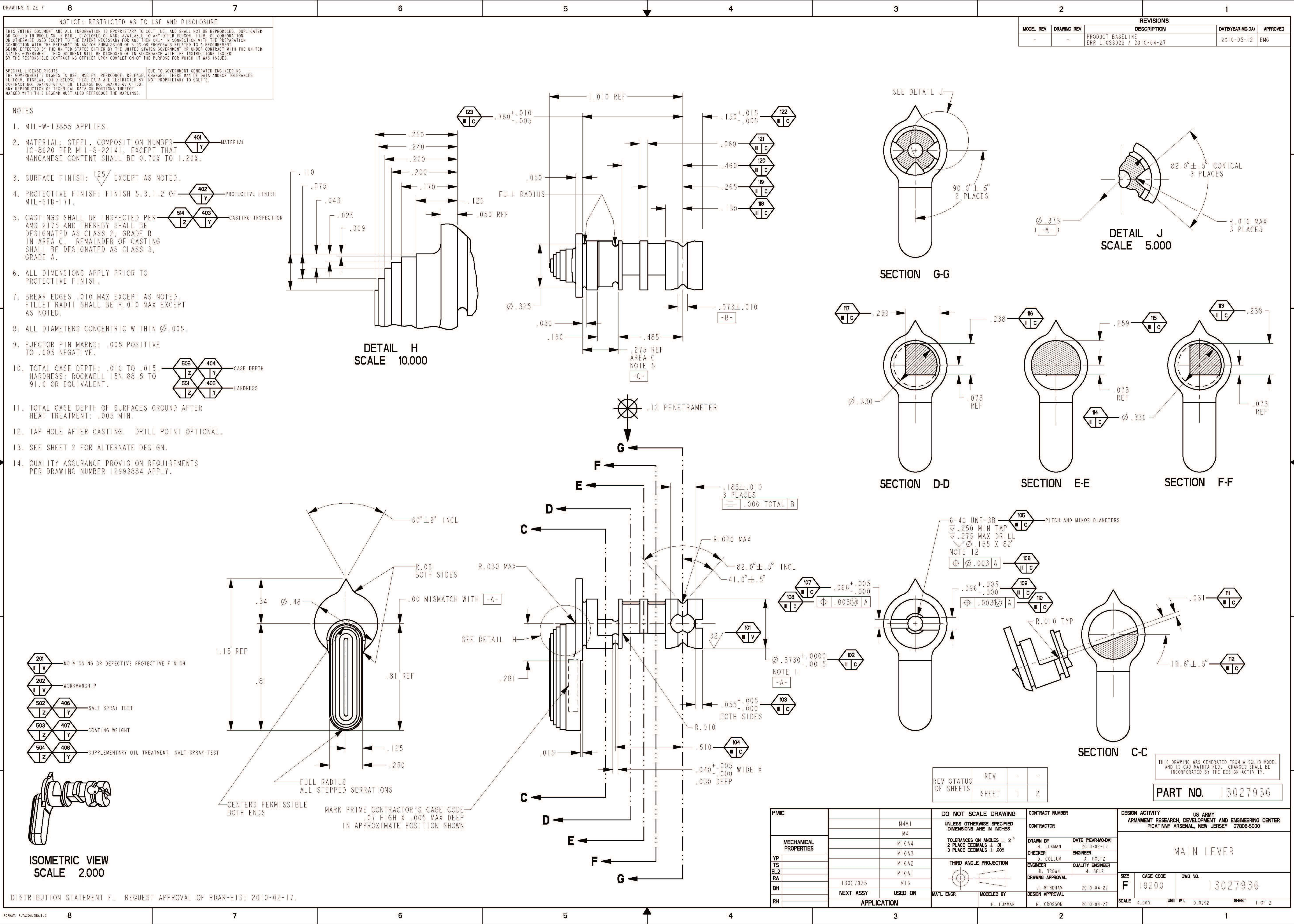
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CHANGES, THERE MAY BE DATA AND/OR TOLERANCE  
NOT PROPRIETARY TO COLT'S.

PWIC		M231	DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY				
		M4A1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000				
		M4									
MECHANICAL PROPERTIES		M16A4	TOLERANCES ON ANGLES $\pm 2^\circ$ 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$		DRAWN BY		DATE (YEAR-MO-DA)		FOLLOWER, MAGAZINE, PLASTIC		
		M16A3			R. BROWN		2007-12-11				
YP		M16A2	THIRD ANGLE PROJECTION		CHECKER		ENGINEER				
TS		M16A1			D. COLLUM		A. FOLTZ				
EL2					ENGINEER		QUALITY ENGINEER		SIZE		
RA		13021312			W. STEVENS				F		CAGE CODE
BH		M16			DRAWING APPROVAL		L. MORSE		2008-03-11		
		NEXT ASSY	USED ON		DESIGN APPROVAL		J. WINDHAM		2008-03-11		
RH		APPLICATION		MATH ENGR		MODELED BY		SCALE		UNIT WT.	SHEET
						A. FOLTZ		4.000		0.0310	1 OF 2





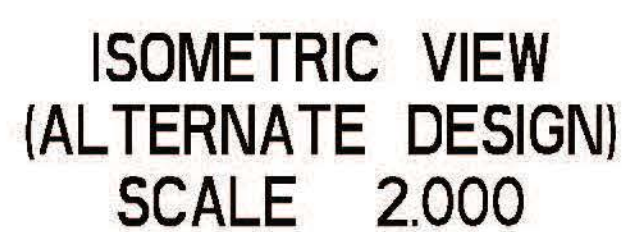
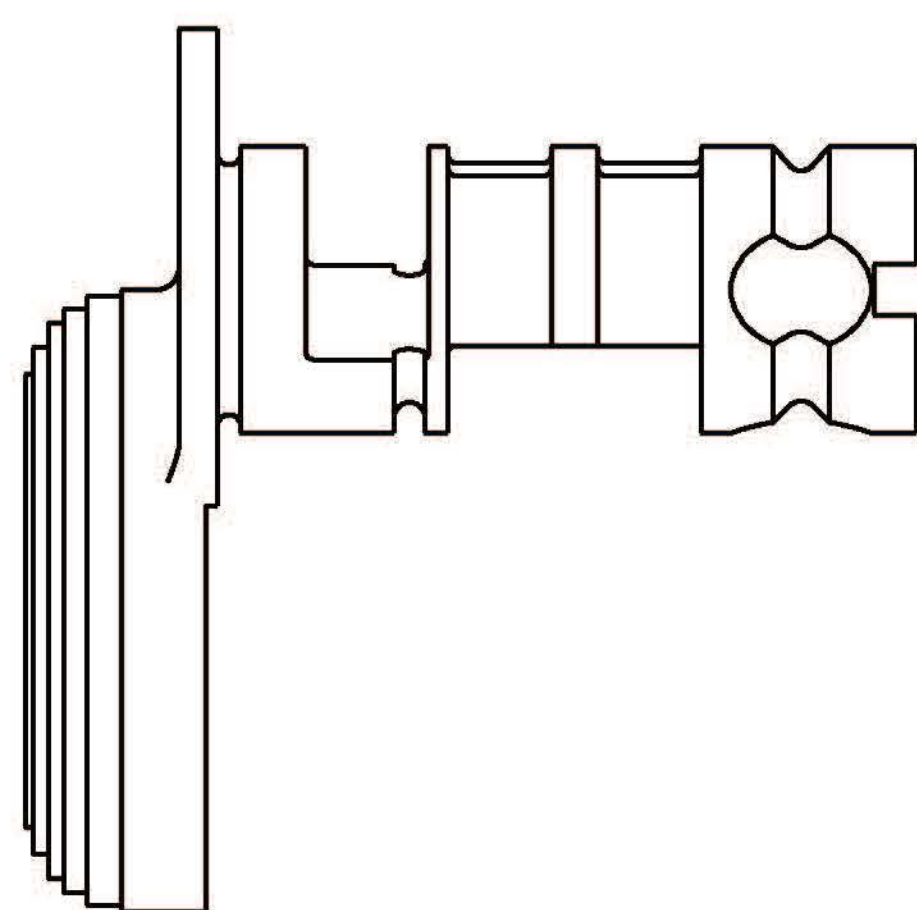






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-	-	PRODUCT BASELINE ERR L10S3023 / 2010-04-27	2010-05-12	BMG
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SCALE	4.000	UNIT WT.	SHEET	2 OF 2
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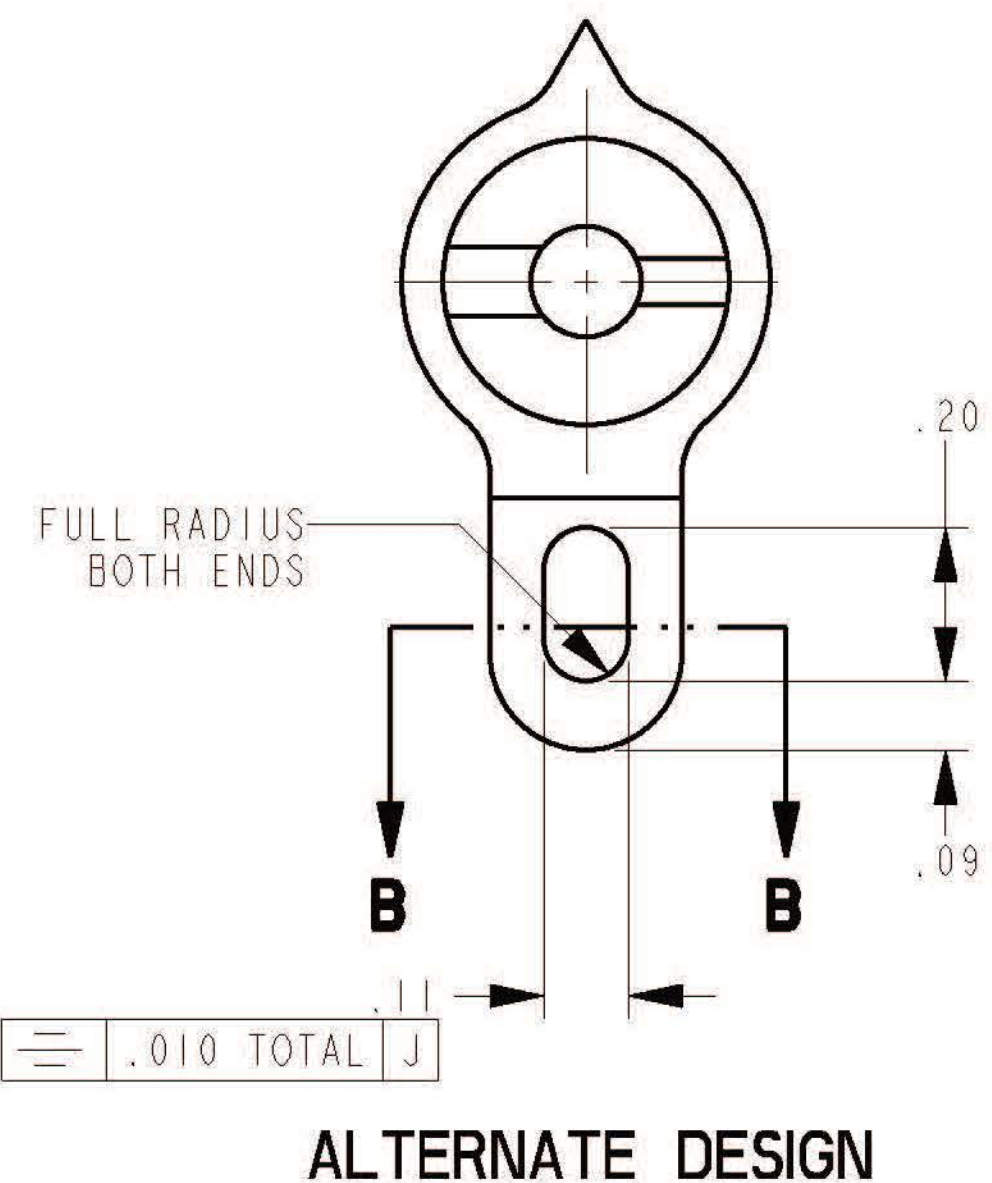
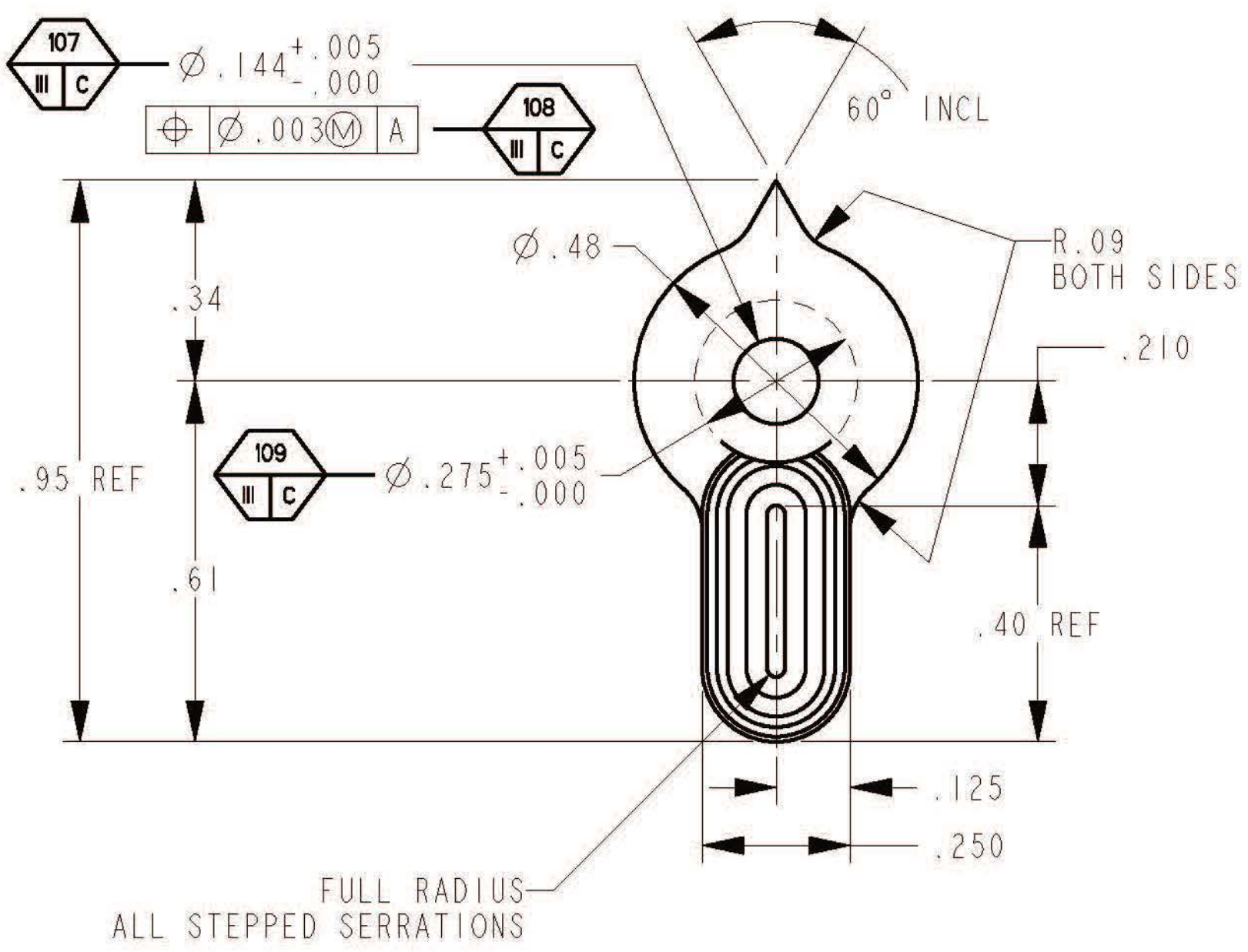
CONTRACT NUMBER		DESIGN ACTIVITY			
CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000			
DRAWN BY H. LUKMAN	DATE (YEAR-MO-DA) 2010-02-17	ANCILLARY LEVER			
CHECKER D. COLLUM	ENGINEER A. FOLTZ				
ENGINEER K. BROWN	QUALITY ENGINEER M. SEIZ				
DRAWING APPROVAL J. WINDHAM	2010-04-27				
DESIGN APPROVAL M. CROSSON		2010-04-27	SIZE F	CAGE CODE 19200	DWG NO. 13027937
SCALE			4.000	UNIT WT.	0.00895
			SHEET		1 of 1



ISOMETRIC VIEW 1

ISOMETRIC VIEW 2  
(ALTERNATE DESIGN)

201	NO MISSING OR DEFECTIVE PROTECTIVE FINISH	
202	WORKMANSHIP	
502	406	SALT SPRAY TEST
503	407	COATING WEIGHT
504	408	SUPPLEMENTARY OIL TREATMENT, SALT SPRAY TEST



PART NO. 13027937

ANCILLARY LEVER

DISTRIBUTION STATEMENT F. REQUEST APPROVAL OF RDAR-EIS: 2010-02-17.



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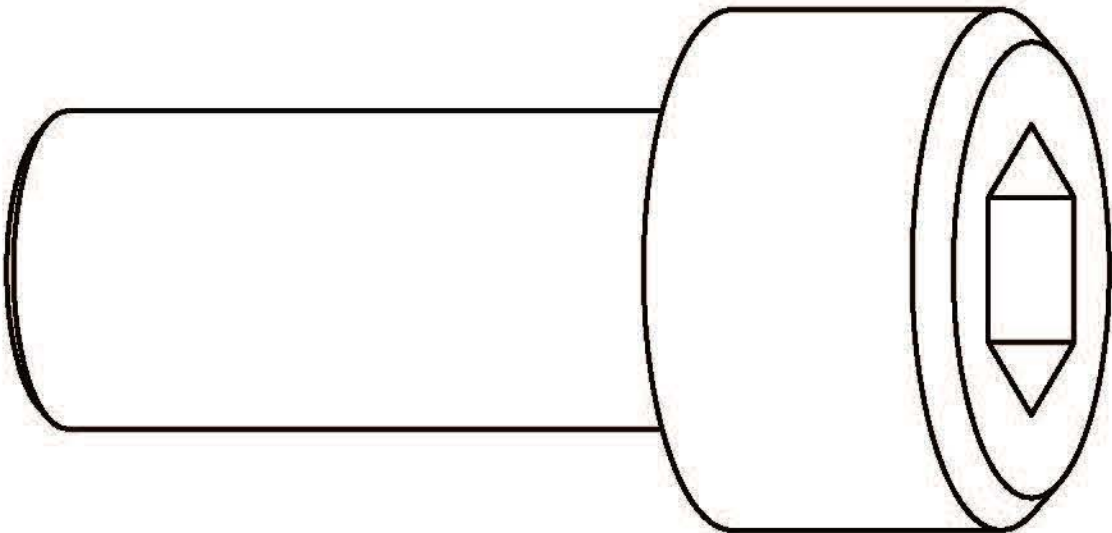
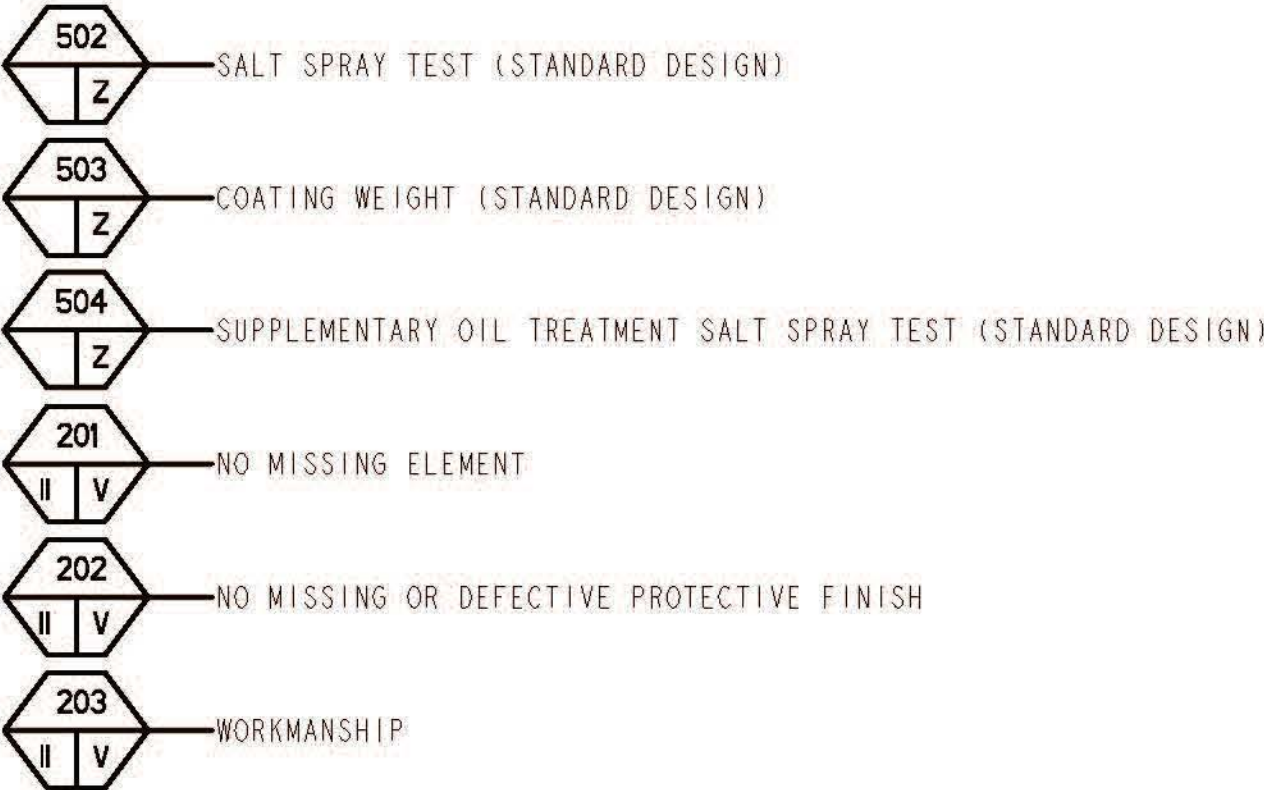
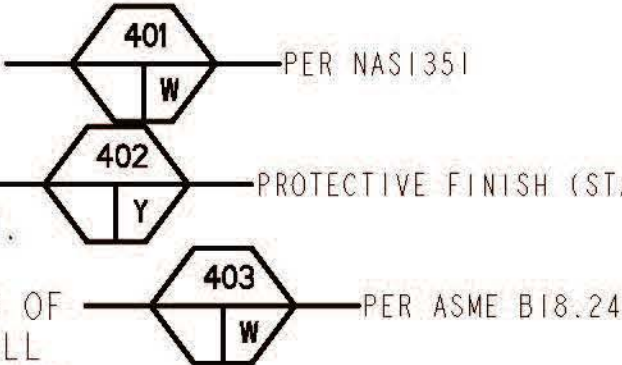
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REVISIONS

MODEL REV	DRAW REV	DESCRIPTION	DATE(YEAR-MO-DA)	APPROVED
-	-	PRODUCT BASELINE ERR L11S3012	2011-04-21	AMW

NOTES:

1. MIL-W-13855 APPLIES.
2. SCREW SHALL MEET ALL REQUIREMENTS OF NAS1351-06LB5 PER NAS1351 EXCEPT AS NOTED.
3. PROTECTIVE FINISH: REMOVE ANY EXISTING PROTECTIVE FINISH AND THEN APPLY FINISH 5.3.1.2 OF MIL-STD-171.
4. ALTERNATE DESIGN: SCREW SHALL MEET ALL REQUIREMENTS OF AESI4K138312BC0LB6 PER ASME B18.24. ELEMENT SHALL BE TYPE P, GOVERNMENT DESIGNATION 06 PER MIL-DTL-18240.
5. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING NUMBER 12993884 APPLY.



ISOMETRIC VIEW

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PART NO. 13036743

ALTERED ITEM DRAWING

PMIC			DO NOT SCALE DRAWING		CONTRACT NUMBER		DESIGN ACTIVITY							
		M4A1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACTOR		US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000							
MECHANICAL PROPERTIES		M4	TOLERANCE ON ANGLES ± ° 2 PLACE DECIMALS ± 3 PLACE DECIMALS ±		DRAWN BY		DATE(YEAR-MO-DA)		SCREW, CAP, SOCKET HEAD					
		M16A4			R. BROWN		2011-02-22							
		M16A3			CHECKER		ENGINEER							
		M16A2			D. COLLUM		V. ESCALONA							
		M16A1			ENGINEER		QUALITY ENGINEER							
YP			THIRD ANGLE PROJECTION		DRAWING APPROVAL		SIZE		CAGE CODE		DWG NO.			
TS					J. WINDHAM		2011-04-21		C		19200		13036743	
EL2					DESIGN APPROVAL		SCALE 12.000		UNIT WT. 0.00267		SHEET 1 OF 1			
RA					M. CROSSON		2011-04-21							
BH														
RH			APPLICATION		MATL ENGR		MODELED BY							
					R. BROWN									

DISTRIBUTION STATEMENT F.  
REQUEST APPROVAL OF RDAR-EIS;  
2011-02-22.